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The Collector of Customs, Chittagong, reports that the important influenced by increase of trade and higher rate of duty imposed or duty imposed or e statistics of the quore. The Collector of Customs, Calcutta, explains the Port of Calcutta in 1920-21 as follows :-

"Ale, Beer and Porter. - A very large increas in imports from United Kingdom has to be recorded, the figure reached being 559,586 ga as. This displaced much Japanese beer, imports of which fell to 10,00 gallons, while prohibition almost entirely eliminated imports from the fitted States. Only limited quantities of Dutch and German beers have get appeared on

"Spirits.—Imports of brandy from France, after a bad year in 1919-20, recovered to a more normal figure, 83,880 gallons. More whisky was imported, practically all from the United Kingdom, and other sorts of spirits also advanced, except rum from Java, reduced imports of which account for the considerable decline in the total figure. Of 146,615 gallons imported from

Java, nearly one-third was denatured on landing.
"Wines.—Imports of wines again advanced, particularly champagne and other sparkling wines and still red wines other than port. There was a falling off in imports of vermouth mainly due to the disappearance of the Spanish substitute which enjoyed a certain sale, faute de mieux, during the

war. "Generally speaking, imports of liquors were greater than consumption and stocks in bond increased during the year. An exception is afforded by rum, of which 98,615 gallons were bonded, while 48,090 gallons potable spirit together with 81,707 gallons denatured before clearance, were removed from the warehouses.'

The Customs Department have kindly furnished the following statistics of imports and issues on payment of duty of potable foreign spirits at the

Calcutta Custom House :-

	110	PORTED (L.	P. GALLONS)		ISSUED ON PAYMENT OF DUTY (L. P. GALLOSS).						
YEAS.	Brandy, whisky, rum and gin.	Java arraok.	White and rectified spirits.	Total.	Brandy, whisky, rum and gin.	Java arrack.	White and rectified apirits.	Total.			
1918-19	384,376	138,833	449	523,209	261,391	3,484	210	255,085			
1919-20	384,147	138,847	***	467,994	276,021	42,138	255	318,414			
1920-21	292,967	168,477	319	461,763	268,037	78,162	319	346,518			

WINES AND (OTHER THAN MEDICATED SPIRITS AND COMMERCIAL SPIRITS) AND BEER.

* 36. Licenses and Revenue.—The total number of licenses issued for wholesale and retail vend was 727 against 597 in the preceding year. There were increases under heads "Wholesale" (2), "Retail-off" (5), "Dining cars" (1), "Steamer" (11), "Temporary bars" (85), "Canteen" (3) and "Late Clarific (15) and "Late (15) and " (1), "Steamer" (11), "Temporary bars" (85), "Canteen" (3) and "Late Closing" (25) and decreases under heads, "Retail-on" (1) and "Hotel" (1). The increase was due mostly on account of grant of temporary bar licenses for special occasions.

The total receipts from license fees amounted to Rs. 3,22,358 against

Rs. 3,01,869 in the previous year.

The receipts from duty were Rs. 10,35,077 against Rs. 8,82,456 in the preceding year. The increase in the amount of duty realised in the year was due to larger issues of Indian-made rum and the raising of duty on potable foreign spirit with effect from 1st March 1921.

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Rum and other stable Foreign liquors manufactured in India.—
The foreign quantities of rum and other potable foreign liquors manufactured in India were is sued uring the year from distilleries and Excise ware houses. Bengal:—

o of manufac	manufacture.		oned on paym of full duty.	ent	Issued at the concession rate of duty.	Insued	daty free.
	- 1	L	. P. gallon	B	L. P. gallons	L. P.	gallons.
Rum-			4 000		- 40	1000/100	71.050
Konnagore	4.4%	0.45	1,370		40	77.1	100
Russa	***	***	6,600		***		
Asansol		2.27	28,280		600		***
Shahjahanpur	***	201	17,241	1725		14-77	600
Brandy-	il Edition		- ALE			-	10274
Rassa	144	***	1,430	2	444		Land of
Whisky-							100
Russa	***	444	455		244		***

Konnagore rum was issued at the concession rate of duty to the Military Police of Assam and Asansol rum to the Lakhimpore Battalion.

Duty-free issues of rum were made to the Campbell Medical School, Mayo and Medical College Hospitals, Calcutta, and to the Government

Lunatic Asylum, Berhampore.

38. Locally manufactured beer.—The two breweries licensed in the preceding year took out licenses also during the year under report, but only the brewery at Sonada manufactured beer during the year. Owing to the difficulty of obtaining barley, the brewery at St. Mary's Seminary, Kurseong, remained closed throughout the year, though a license was taken by the curator.

Duty was charged on 11,501 gallons against 54,436 gallons in the preceding year. The decrease in manufacture was due to smaller quantities being taken by the Military authorities. The Japanese beer, which was cheaper in price, also competed with the locally made beer to some extent.

Receipts from license fees and duty amounted to Rs. 3,400 against Rs. 15,476 in the previous year.

MEDICATED WINES AND RECTIFIED SPIRITS.

39. Licenses and revenue.—The number of licenses for the retail sale of medicated wines and rectified spirits were 158 and 34, respectively, against 138 and 31 in 1919-20. The revenue from license fees was Rs. 9,000 against Rs. 8,950 in the preceding year.

40. Manufacture and issue of rectified spirits.—Rectified spirits were manufactured in the distilleries at Asansol, Konnagore, Russa and

Bahir-Mirzapur Road, Calcutta.

The following quantities of rectified spirits were issued during the year for medicinal, industrial and scientific purposes from distilleries and Excise warehouses in Bengal:—

Place of manufacture.	On payment of duty.	Duty-free.	For manufacture of tinctures and absolute alcohol in bonded laboratories.
Asansol	L. P. gallons.	L. P. gallons. 4,329	L. P. gallons. 36,446
Konnagar	9,402	22	1,977
Russa	3,033	32	671
Bahir-Mirzspur Road	8,526	48	3,985

Besides the above, 4,993 L. P. gallons of rectified spirits were issued under bond from the Asansol distillery to the United Provinces.

Asansol spirit was issued duty-free to the Director, Zoologic Survey of India, to the Medical Store-Keeper to Government, to the Officer in charge of the Mathematical Instrument Office, Calcuta, and to the Aricultural Chemist, Sabour; Konnagore spirit to hospitis and the Photo and Litho Office, Calcutta; Russa spirit to the Controller, Printing of Stamps, Calcutta, to the Agricultural Chemist and to the Fibre has ert. Dacca, and Bahir-Mirzapur spirit to the Calcutta Corporation of Charitable dispensaries.

Duty-free issues were also made through Messrey mith Stanistreet & Co., Messrs. B. K. Pal & Co., and Dr. K. C. Bos from the warehouses attached to their bonded laboratories, to charitable dispensaries in Bengal, Bihar and Orissa and Assam.

41. Manufacture of tinctures, etc., in Bended Laboratories.—Four bonded laboratories manufactured tinctures, etc., during the year under report as in the previous year. Besides, a new bonded laboratory has been opened by the Bengal Chemical and Pharmaceutical Works since February 1921. Duty was paid on 7,784 proof gallons of spirit contained in tinctures and medicinal preparations issued from the four laboratories, whilst medicinal preparations containing 10,078 proof gallons of spirit were issued duty-free to charitable dispensaries in the various provinces.

SECTION IV.—Nemp drugs.

GANJA.

47. Retail Licenses.—The total number of licenses issued in the Presidency for the retail sale of gunja was 1,267 as compared with 1,263 in 1919-20.

48. Consumption of ganja.—The total quantity of ganja consumed in the Presidency amounted to 1,840 maunds 26 seers as compared with 2,052 maunds 6 seers in 1919-20, a decrease of 211 maunds 20 seers. Consumption decreased in eighteen districts and increased in nine. The decrease exceeded 10 per cent. in five districts, viz., Dacca, Noakhali, 24-Parganas, Midnapore and Khulna, and 20 per cent. in Mymensingh (108 maunds or 38'89), Darjeeling (4½ maunds or 34'71), Rangpur (30 maunds or 31'56), Jalpaiguri (11½ maunds or 28'81), and Faridpur (12½ maunds or 22'67). Elsewhere in which a large decrease also occurred is Calcutta (23 maunds 28 seers). The fall in consumption was due to higher price and stricter control under the Bengal fixed-fee system.

The only district in which the increase exceeded 20 per cent. was Dinajpur (14% maunds or 25.86). The increase exceeded 3 maunds in Tippera (11 maunds 25 seers), Rajshahi (10 maunds 16 seers), Malda (7 maunds 22 seers), Bogra (6 maunds 21 seers) and Murshidabad (6 maunds 1 seer). These districts were under the auction system during the year. The lower rate of retail price may, to some extent, be taken as the general cause of increase.

49. Total revenue.—The total receipts for the year amounted to Rs. 38,16,458 against Rs. 36,47,148 in 1919-20, an increase of Rs. 1,69,310. There was a fall of Rs. 79,511 in the receipts from duty, whilst receipts from license fees increased by Rs. 2,48,821.

50. Incidence of Taxation.—The incidence of license fees per seer of ganja consumed was Rs. 30 and that of duty Rs. 20. The total taxation was Rs. 50 per seer as compared with Rs. 43.9 in the previous year.

Cultivation and utturn of ganja at Nacison in Rajshahl.—The number of applications to allivate ganja received last season (1921) was 2.542 for a trea of 3,958 bit as, as compared with 3,087 applications for an area of tall bighas in the revious year. One thousand nine hundred and ninety-the discusses covering an area of 2,802 bighas 4 cottahs and 10 chittaks were gran 11, as compared with 2,207 licenses covering an area of 1,999 bighas 11 of tahs and 14 chit aks in 1919-20. The area actually cultivated with ganja wat 2,700 bighas a d 14 chittaks against 1,972 bighas 14 cottahs and 1 chittak the preceding year. The area under cultivation, as usual, was strictly tested of as a result, a very large number of cases of change of plots was detected. This irregularity arose out of a misconception on the part of the cultivators, who could not locate the plots licensed correctly. The prospects of the crop were not favourable from the beginning. Unusually heavy rainfall in September and October seriously damaged the seedlings. The floods which followed the rains both in September and October also caused much damage to them. The cultivators took the utmost care to make good the loss. Fresh nurseries were prepared and some portions of the ganja fields were retransplanted, and it was apprehended that the outturn of the crop would be less than the normal. The difficulties of the cultivators were not yet gone. In November a kind of caterpillar locally called "Tamakur poka" and red spider appeared in the ganja fields, but the damage by these pests was not appreciable. The outturn after all proved to be better than what had been anticipated being 2 maunds 21 seers 7 chittaks per bigha. The total quantity of ganja stored in the public golas amounted to 6,847 maunds 29 seers and 1 chittak as compared with 4,569 maunds 18 seers 2 chittak in the preceding season.

BHANG.

58. Licenses and revenue.—The number of retail licenses in the year under report was 261 against 249 in 1919-20. Four shops were opened in Mymensingh, three in Rangpur, two in the 24-Parganas, one each in Burdwan, Noakhali and Bogra, with the approval of the Advisory Committees. The total number of druggists' permits issued was 355 as compared with 358 in the preceding year. The total revenue from license fees and duty amounted to Rs. 1,77,635 as compared with Rs. 1,61,477 in 1919-20, an increase of Rs. 16,158.

59. Consumption.—An appreciable demand for bhang, as in the previous year, was chiefly confined to most of the Western Bengal districts. In Eastern Bengal, Dacca is the only district in which there was a considerable demand for the drug. In the other districts in the Province the consumption, as usual, was very small. The total consumption within the Presidency amounted to 780 maunds 3 seers against 724 maunds 19 seers in the previous year. The increase exceeded 5 maunds in Calcutta (32 maunds 16 seers), Burdwan (13 maunds 29 seers), 24-Parganas (6 maunds 19 seers), Hooghly (5 maunds 30 seers) and Midnapore (5 maunds 4 seers). The increase in Calcutta was partly due to the influx of up-country men in the town and partly to higher price of ganja. The Collector of Burdwan reports that the increase in that district was partly due to the Kavirajes having taken their supplies of the drug from the licensed shops. The increase in the other districts was also due to higher price of ganja.

districts was also due to higher price of ganja.

Two maunds and twenty-five seers of duty-paid bhang were exported from Hooghly to French Chandernagore. Tippera supplied 8 seers to the adjoining state of Hill Tippera. Sixteen maunds and twenty seers of bhang

were exported from Naogaon to Manbhum in Bihar and Orises.

CHARAS.

60. Licenses and revenue.—Twenty-nine retail licenses were in force during the year, as in 1919-20. Four wholesale licenses were issued against

three in the previous year, one is each of the districts of Birly am and Dinajpur and two in Calcutta. This year again, the wholesale lealer of Dinajpur did not import any charas from the Punjab. The total revenue amounted to Rs. 67,693 as compared with Rs. 78 039 in 1919-20 decrease of Rs. 10,346.

61. Imports, exports and consumption.—The total quantity of charas imported into Bengal was 23 maunds 33 seers again 28 maunds 25 seers in the preceding year. The wholesale dealers of Calcutta and Birbham imported the drug direct from the Punjab an supplied the retail

vendors throughout the Presidency.

The total issues to retail shops in the Presidency amounted to 24 maunds 18 seers as compared with 28 maunds 32 seers in 1919-20, the excess of issues over the imports being met from the last year's balance. There was a noticeable fluctuation—a decrease of 3 maunds 15 seers in Calcutta, due to the strike on the North-Western Railway in the early part of the year under report, which cut off the supply of charts from the whole of Bengal for over two months.

Seven seers of char s were exported to Bihar and Orissa, as compared

with 9 seers in the preceding year.

SECTION V .- Opium.

Excise opium to retail shops is fixed according to the estimated local demand. All the shops in Midnapore, Hooghly, Howrah, the 24-Parganas, Calcutta, Khulna, Bakarganj, Faridpur, Chittagong, Noakhali, Tippera and Jalpaiguri and a certain number of shops in Burdwan, Nadia, Jessore, Darjeeling, Mymensingh, Murshidabad and Rajshahi continued to work under this system. It was extended to five more shops in Nadia during the year under review and though it was not found necessary to bring more areas under the operations of this system, the issues of opium continued to be regulated and were limited as far as possible to bona fide local consumption. The system has some inherent defects, and efforts will be made to remove these defects as early as possible.

63. License for retail sale.—The total number of licenses issued for the retail sale of excise opium was 835, as compared with 828 in the previous year. The increase was due to the opening of three new shops in the 24-Parganas and one each in Burdwan, Mymensingh, Tippera and Noakhali. All the new shops were opened with approval of the Advisory Committees

concerned. No shop was abolished during the year under report.

64. Permits and license under the Opium and Morphia Rules.—The total number of permits and licenses was 1,164 as compared with 951 in 1919-20. The number includes 32 licenses to manufacturing chemists, 409 to dispensing chemists, 81 to Kabirajes and Hakims and 57 permits to permit-holders (total 579 for intoxicating drugs) and 38 licenses to dealers, 419 to chemists, 52 to persons approved under rules 21(1) and 21(2) of the Morphia Rules and 76 persons authorised under rule 22 of the same rules

(total 585 for Morphia drugs).

65. Consumption.—The consumption of excise opium during the year was 1,065 maunds and 34 seers, as compared with 1,038 maunds and 5 seers in the previous year, showing an increase by 27 maunds and 29 seers or 2 67 per cent. The consumption increased in 17 districts and decreased in 9. The largest increases occurred in Bogra (60 seers or 20 8 per cent.), Tippera (41 seers or 15 2 per cent.), Dinajpur (91 seers or 14 2 per cent.), the 24-Parganas (418 seers or 8 2 per cent.), Bankura (54 seers or 7 4 per cent.), Pabna (17 seers or 6 3 per cent.), Howrah (90 seers or 5 9 per cent.), Midnapore (195 seers or 5 4 per cent.), Hooghly (147 seers or 5 4 per cent.), Malda (61 seers or 5 4 per cent.) and Rajshahi (25 seers or 5 3 per cent.). The increase in Oalcutta was by 492 seers, but the percentage of increase

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was sma. In Bogra and Pabna the increase was due to increased sales in the shopt situated close to the borders of the Rangpur district where retail prices were high since the infroduction of the fixed-fee system. The increase in Tippers has due to increased allotments to some shops, in Dinajpur to the improved a distinct of the confirmers and to better management of shops, in the 24-Parg has to the opening of three new shops and to increased allotments to some shops, in Bankura to gradual reversion to normal conditions after the famine year in 1915-16, in Howrah and Hooghly to a certain class of consumers taking their appolies from local shops instead of from Calcutta as consumers taking their supplies from local shops instead of from Calcutta as previously on account of restriction of sales at the latter place, in Midnapore to the prevention of import of opium from Balasore and Singbhum. The noticeable decrease occurred in Rangpur (215 seers or 20'8 per cent.), in Nadia (109 seers or 12'6 per cent.), and in Darjeeling (28 seers or 10'9 per cent.), and it has been ascribed to the following causes :- in Rangpur to high retail prices of the drug and the rise in prices of the necessaries of life, in Nadia and Darjeeling to the extension of the restrictive system of supply to some shops. In no other district did the decrease exceed 10 per cent.

66. Total receipts.—The total receipts amounted to Rs. 34,00,913 as compared with Rs. 32,48,820 in 1919-20. There was an increase of Rs. 1,52,033 or 4:6 per cent., which occurred mostly under the head of

"License feas."

67. Morphia and Opium pills. The use of morphia as a substitute for opium does not appear to have been prevalent in any of the districts. No sale of opium pilis was reported during the year under report.

SECTION VI. Cocaine.

70. Licenses and revenue. Three hundred and twenty-one licenses were issued during the year to chemists and druggists for the sale of cocaine. as compared with 287 in 1919-20. Forty-three permits for the possession of cocaine were issued free to managers of hospitals or dispensaries not under Government supervision, viz., sixteen licenses for tea gardens in Jalpaiguri, eight for charitable dispensaries in Burdwan, four in Tippera, three in the 24-Parganas, two in each of the districts of Midnapore, Calcutta, Nadia and Bakarganj and one each in Khulna, Faridpur, Noakhali and Rajshahi. Twentyone permits were issued to qualified medical practitioners and dentists in Calcutta, four in Chittagong, three in each of the districts of Burdwan and Dinajpur, two in Faridpur and one each in Midnapore, Murshidabad, Jessore, Noakhali and Tippera for possession and use of the drug in the course of their practice.

71. Preventive operations and Milicit transactions,-Italian cocaine was seized in one case in a large quantity on board an Italian steamer. German and Austrian stuff was not seized in many cases. The abuse of cocaine continues in the Calcutta district and in the neighbouring parts of the 24-Parganas and Howrah and in the districts of Burdwan and Hooghly. A cocaine case was detected each in Midnapore and Faridpur. The number of persons convicted of illicit possession, sale or smuggling of cocaine decreased from 275 to 248. In Calcutta the number was 215 as compared with 244 in 1919-20. An account of some important cocaine cases will be found in Section

VII of this report.

The total quantity of cocaine seized in Bengal during the year was 18 lbs. 6 ounces and 106 grains as compared with 33 lbs. 3 ounces and 29% grains in 1919-20. Only 36 ounces and 397 grains were seized outside the Calcutta district, and of this quantity 35 cunces 319 grains were seized in the 24-Parganas. In Calcutta 130 ounces and 1562 grains were seized by Excise officers, 120 ounces by Customs officers, 6 ounces and 419 grains by Police officers and 3 grains by other officers.

SECTION VII-Offences against the Excise and Opium Lay

78. Presecutions and conviction.

The total number of persons arrested during the year as 6,183 as compared with 6,651 in the previous year. Of these, 5,764 were convicted during the year against 6,038 in 1919-20. The number of arrests increased in 10 and decreased in 16, out of the 27 districts in the Presidency of Bengal. The increase was most marked in Bankura (246), Birbhum (222) and Hoogaly (216). In Bankura the increase was due to a better mohua crop. Almost all of the offenders in this district came from the aboriginal tribes. In Birblium it was due to the illicit manufacture of parhwai for private consumption, whilst the increase in Hooghly was due to the prevalence of the manufacture of pachwai by the Santals in the Sadar subdivision and of tari in the treetax areas (Sadar and Serampore subdivisions). On the other hand the decrease was largest in Midnapore (421), Calcutta (196), Rajshahi (90), the 24-Parganas (89), Mymensingh (58), Rangpur (57) and Murshidabad (50). The decrease in Midnapore is said to have been due to paucity of officers owing to frequent casualties among the preventive staff. In Calcutta it was due to the reduction in the number of petty cases. In Rajshahi the decrease was due to (1) better prevention of smuggling of ganja from the ganja Mahal, (2) arrest and conviction of several informers who were principal smugglers, and (3) the detection of large number of cases in the previous year. In Mymensingh the deterrent effect of the previous year's punishments made the offenders to be on their alert which resulted in the fall of arrest. The decrease in Rangour was due to the fact that importation of any quantity of excisable article even worth one pice, from Cooch Behar into British territory, was treated as offence during 1919-20. This rule was ultimately modified under which bona fide travellers were allowed to bring with them one tola of every kind of drug for personal consumption and also, partially, to the detection of a large number of petty bhang cases in the preceding year.

74. Classification of offences .- Four hundred and eighty-two persons were arrested for "illicit distillation" and 144 for possession or sale of "illicit country spirit" as compared with 453 and 378, respectively, in the preceding year. The chief increases under these two heads taken together occurred in Bankura (66) and Chittagong (11) and the chief decreases in Midnapore (140), Hooghly (56), the 24-Parganas (45), Calcutta (13), Howrah (12) and Darjeeling (11). In the Barrackpore subdivision of the 24-Parganas, the Excise Superintendent detected an important case of illicit distillation of country spirit with a large amount of materials and implements within a very short distance of the Tittaghar country spirit shop. The accused was distilling liquor in collusion with the local country spirit vendor to the loss of Government revenue. 'The accused was sentenced to two months' rigorous imprisonment. In another case in that district one of the accused was a member of the Panchayet of an Union and was an influential man and had a gun license. He was distilling liquor in order to put his enemy into trouble by introducing the liquor into his house. He was sentenced to a fine of Rs. 300 in default three months' rigorous imprisonment. In Mymensingh the people, who resorted to illicit distillation, were invariably the hill tribes. Their implements were primitive and the liquor was used for domestic consumption as well as for sale. A case of illicit distillation of "Mrita Sanjibani Sudha" was detected in Faridpur. A priest of a Raj family at Natore, in Rajshahi, was prosecuted and sentenced to pay a fine of Rs. 100 for illicit possession of materials and apparatus intended for illicit manufacture of country spirit. In Jalpaiguri almost all the illicit distillation cases were detected in the tea gardens and the offenders were generally Paharias and Bhutias. The tea garden coolies of Darjeeling were also the offenders in the majority of illicit distillation cases. Illicit distillation prevails to some extent in parts of Sadar and Pirojour subdivisions as well as in the Sunderbans area of the Backerganj district.

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distif "Liquor for sale amongst prostitutes and in the grocers' shops were detectal juring the year of hiport

The lember of arrests under the head "unlicensed sale of duty paid country spirit" fell from 1.2 to 115. The decrease occurred principally in the 24-Pars mas and Calcutta due to the introduction of more honest and better class of vendors.

The arrests for "illigit transcript"

The arrests for "illicit possession of duty paid country spirit" decreased

from 48 to 29. The decrease is due to ordinary fluctuation.

The prosecution of illicit import, export or transport of country liquor increased from 87 to 139 or by 52. Hooghly is credited with the whole of the increase. The offence has been well controlled by the special staff. In Darjeeling the smuggling of Nepal and Sikkim liquor was chiefly carried on at night through the agency of women.

The number of arrests for "Illicit sale of foreign liquor" rose from 56 to

88 or by 32, of which Calcutta alone contributed 25.

There were 1,524 arrests under the head tari against 1,609 in the previous year. The decrease has no special significance. This crime is common amongst the lower classes (especially the up-country people) in the Burdwan and Presidency divisions.

The arrests under the head "Illicit manufacture, possession or sale of packenni," rose from 1,634 to 1,940 or by 3u6 persons. The increase was most, marked in Birbhum (214), Bankura (169), Hooghly (130) and the 24-Parganas (56), whilst the decrease was most marked in Midnapore (205) and Burdwan (28). The increase in Birbhum, Bankura and Hooghly and the decrease in

Midnapore have already been explained in paragraph 73 above.

Three persons were arrested for "Illicit cultivation of poppy" against 10 in the preceding year. Taking the figures under the 2 heads "Illicit opium" and "Treasury opium" together, the number of arrests decreased from 524 to 372 or by 152. The arrests decreased by 96 in Calcutta, 48 in Midnapore, 12 in the 24-Parganas and 11 in Nadia. The total quantity of opium seized in Bengal amounted to 68 maunds 6 seers of which 43 maunds 34 seers were seized in Calcutta alone. Thirteen maunds one seer were seized by the special staff at different railway stations. The Customs Officers made 32 seizures amounting in all to 3 maunds 21 seers. Thirty-three maunds 8 seers were seized by the Excise Officers in Calcutta as compared with 27 maunds 9 seers in the preceding year. Two maunds 34 seers have been seized by each of the Calcutta Police and the Howrah Railway Police. Some important arrests were made by the Calcutta Excise and the special staff. Mention may, however, be made of four important cases detected by the Calcutta Excise staff. in the first case, the Superintendent of Excise, Preventine Branch, arrested one Golam Hosain alias Bishambar Prosad, a notorious opium and occaine smuggler, with 44½ seers of opium. He was arrested in the present case just four months after his release from Na.ni Jail for a similar offence for which he was arrested in Allahabad in November 1919. He was also convicted under section 467, Indian Penal Code, and sentenced to undergo three years' rigorous imprisonment at Burdwan in 1915. He wanted to hide his identity and his previous convictions and was therefore dressed as a Muhammadan. He gave his name as Golam Hosain but his real name and previous convictions were traced out with his finger prints and careful enquiry. He was for a long time the right-hand man of the notorious Calcutta smuggler Surjee Prosad. He was convicted and sentenced to undergo one year's rigorous imprisonment. The second case was detected by an Inspector of Excise. One Jahandar Khan, a landholder and an influential man of terror of Ghazipore, who was dealing in contraband opium illicitly obtained from the local cultivators some of whom were his tenants, was arrested when he was trying to dispose of 66 seers of erude opium to a bogus mahajan set up by the Inspector. He was convicted and sentenced to nine months' rigorous imprisonment and to a fine of Rs. 1,000. The accused appealed before the Sessions Judge and the Allahabad High Court, where the Lower Court judgment was upheld and the appeal dismissed. In the 3rd case, one Baijnath Missir, a durwan of a notorious Chinese smuggler Seo Chang Hai with 5 aliases, was arrested by an Excise Inspector

for possession of 20 seers of opium, which the China han used to keep from his house through his durwan for fear of letection. The at was convicted and sentenced to six months' ric rous imprisonment consequence of the detection of this case, the house of the Chinese state of the Ch In See Chang Hai was searched and incriminating p pers and documents were seized. Three registered post parcels sent from Calcutta to Rangelin were about this time seized in Rangoon. Each of the pircels was found to contain 6 seers of opium. The names of the addressees were found to be fictitious. The Rangoon Excise authorities wrote to Calcutta Excise to trace out the sender of those parcels. The Superintendent of Excise after carefully going through the papers already seized, was of opinion that Seo Chang Hai was sending opium in registered post parcels to Rangoon in fictitious names. When the coverings of the parcels were received, the Excise Superintendent compared the handwriting on the labels of those parcels with the handwriting in note books and other papers seized in the house of the suspect and found them agree. them agree. A postal receipt of one of the parcels was also found in the house of the offender Seo Chang Hai. A case was accordingly started against the man. He was also subsequently arrested by the Rangoon Excise at Rangoon on the identification of the Calcutta Excise Superintendent and his one of the Inspectors, who went there for the purpose for further investigation of the case. The accused was sentenced to undergo six months' rigorous imprisonment by the 3rd Presidency Magistrate, Calcutta. In the 4th case, one Latifuddin and 6 other Peshwaries (2 belonged to Rai Bareilli district, 3 to Shajahanpur, 1 each to Meerut and Muradabad) were arrested at Kharagpur Railway station by the Calcutta Excise Preventive staff, with the assistance of the Government Railway Police and the Special Excise staff, Kharagpur, on their way to Calcutta from Nagpur. These people were dressed as sepoys in full military uniforms with one Gore Khan as their Havildar. They took a very threatening attitude at the time of their arrest and one of them actually brought out a knife with a view to assault a Government Railway Police Sub-Inspector. The opium seized was about 12 maunds in weight and was declared, on analysis, to be Udaipur State opium. All the accused were convicted and each was sentenced to undergo one year's rigorous imprisonment and to pay a fine of Rs. 500, in default to 6 months' additional rigorous imprisonment, except Gore Khan, who was convicted only for conspiracy. They appealed before the Sessions Judge, Midnapore, who upheld the sentences.

The following are some of the important seizures of opium sent by railway parcels from the different provinces outside Bengal:—

- (1) A parcel containing 20 seers of gola opium despatched from Sagaur to Howrah.
- (2) One parcel containing 18 seers of Malwa opium sent from Agra Cantonment to Howrah.
- (3) One steel trunk booked from Munda Road to Lillooah was found to contain 19 seers of opium.
- (4) One parcel from Kishori Pathan, Bombay Baroda and Central India Railway, to Tinpahar was found to contain 20 seers of gola opium.
- (5) Two parcels from Delhi to Howrah said to contain fruits were found to contain 50 seers of opium.
- (6) One parcel said to contain machinery booked from Delhi to Hewrah was found to contain about 18 seers of opium.
- (7) One parcel from Coconada Port to Calentta Booking Office was found to contain 20 seers of Treasury opium.
- (8) Five crates said to contain glasswares booked from Nizamuddin near Delhi to Howrah were found to contain 73 seers of opium.

9) Four crates said to contain lanterns booked from Delhi to Howrain were found to contain 45 seers of opium.

One parcel from Jaynagar (Bengal and North-Western Railway) to-Chakdah Railway station found to contain 13 seers of Treasury opium.

Twenty-two postal parche containing about 64 seers of opium were seized in Calcutta during the year of report with fictitious names. Such parcels are reported to have been addressed to fictitious names and addresses, the delivery of which was made with the connivance of the delivery peons. These parcels came 7 from Rampore State, 3 from Jaypur State, 2 from Delhi and 1 each from Tanuku (Madras), Muzaffarpur, Mamtaul, Darbhangs, Amritsar, Etwa, Katamunda (Nepal), Moradabad and Meerut.

Some of the methods adopted by the smugglers to carry on their nefarious trade were the employment of carriers dressed as sepoys or khansamas and of Marwaries (men and women) and Anglo-Indians (men and women) travelling in 1st and 2nd class compartments. Opium was smuggled to a considerable extent in railway and postal parcels, in pillows, in beddings, in oil-cloth bags tied round waists of the railway passengers, in tea chests, in vegetable and fruit baskets, in oxygen cylinders, in bundles of peacock feathers, in felts, in crates said to contain glasswares, etc., in Ceylonese cocoanuts, in the sides of the boxes made hollow and in false bottomed boxes.

There were 290 arrests for "Illicit possession or sale of modak or chandu" against 339 in the preceding year. The chief decreases occurred in Midnapore (23) and the 24-Parganas (20).

The arrests for "Illicit cultivation or collection of ganja or bhang" increased from 70 to 87, of which Pabna alone is responsible for 14. In Daca, specially in the Manikganj subdivision, there is much spontaneous growth of bhang and it is not possible to exterminate it. The illicit possession of ganja and wild bhang is one of the common offences in the district of Dinajpur. In Bogra, one Baula Majhi was arrested for unlicensed cultivation of 6 ganja plants and for possession of certain quantity of non-duty-paid bhang. He was convicted and sentenced to pay a fine of Rs. 15. In the Eadar subdivision of Rajshahi a case of illicit cultivation of ganja plants was detected which ended in conviction of the accused. Seven cases were detected in the Naogaon subdivision of that district for illicit possession of green ganja against 6 in the previous year. The total quantity of green ganja seized was 1 maund 4 seers 10 chittaks as compared with 2 maunds 18 seers 14 chitaks in the preceding year. A few cases of special importance are given below:—

- (1) One Dilban Sonar, who used to work as an informer from a long time, was suspected of smuggling of ganja. An Excise Sub-Inspector succeeded in purchasing 52 tolas of ganja from him. He was prosecuted and sentenced to three months' rigorous imprisonment.
- (2) One Jiar Ali Sheik was an informer but was also one of the leaders of a gang of smugglers. The Excise Sub-Inspector of the circle made arrangement through a bogus purchaser to purchase ganja from him and was successful. The man had one tols, while his accomplice had 13½ tolas of ganja in his person. He was sent up and sentenced to rigorous imprisonment for six months.
- (3) One Shona Sardar, who was a ganja cultivator, was arrested while making over 17 seers of green ganja plants through his accomplice Momin Sardar to a bogus purchaser arranged by an Excise Sub-Inspector. They were prosecuted and sentenced to undergo rigorous imprisonment for two months each.

- (4) One Golap Singh was arrested by an Excise Sub-Inspector who attempting to carry 32 seers of freen ganja plants, ith his companion Jangli Buna. The companion could not be arrested on the spot. The green ganja vis cut in the presons night and was left in the ditches near by as it became tawn. He was sentenced to a fine of Rs. 200. The case gainst his companion is pending.
- (5) One Bhola Mondol, who was an informer, was also a notorious smuggler and leader of a gang of smugglers. He manufactured ganja in a barley field and attempts were made to arrest him at the time of manufacture, but they failed. Subsequently when the ganja was removed to his house, a search was made there and 268% tolas of ganja were found in different places within his house. He was prosecuted and sentenced to undergo rigorous imprisonment for 6 months.

The arrests for "Unlicensed sale of hemp drugs" decreased from 277 to 207 or by 70.

The prosecutions under the head "Illicit sale or possession of cocaine" were 277 as compared with 324 in 1919-20. Calcutta was principally responsible for the crime where alone 238 persons out of 277 were arrested for the offence. The 24-Parganas and Hooghly come next with 23 and 8, respectively. Nearly all the important cases occurred in Calcutta. The offenders in most of the important cases in Calcutta were either Chinamen or Japanese. The former, as in the previous year, were also extensively engaged in the contraband trade of opium. In the 24-Parganas, the majority of the cases took place in the Barrackpore subdivision where the drug used to be transported from Calcutta for sale in the mill areas. The trade being a lucrative one attracted many people. Big smugglers generally remained behind the scene to avoid arrest. A few important cases are mentioned below:—

A Japanese member of the crew of SS. "Tanda" was arrested in Calcutta while he was trying to dispose of 25 ounces of cocaine. He was sentenced to undergo rigorous imprisonment for one year. One Cassars Rosarco, the Chief Officer of the Italian Steamer "Ansaldo VI." was arrested in his own cabin for selling 33 ounces of cocaine to an Inspector of Excise, who posed himself as a makajan. The case is the first of its kind and both the Inspector and his Petty Officer showed great skill, pluck and discretion in the detection of the case. They ran a risk of their lives when they entered the cabin of the Chief Officer with Rs. 1,800 to buy the cocaine as there were about 100 Italians round about the cabin and a word from the Chief Officer, if he had discovered their identity before his arrest, would have endangered their safety. The Calcutta Excise Staff were assisted very much by the Customs Preventive Officers in the arrest of the offender in this case. The accused was, however, leniently dealt with by the trying Magistrate and was sentenced to pay a fine of Rs. 1,000 only as the steamer could not leave the port without her Chief Officer. One Amulya Charan Das was arrested for possession of 12 ounces of cocaine near the Pattipuker Railway station in the 24-Parganas. The stuff was brought from Calcutta, and intended for sale in the mill area of the Barrackpore subdivision. The accused was dressed as a bhadralok and was travelling in a second class carriage when he was He was sentenced to stopped. The cocaine was found tied to his waist. rigorous imprisonment for four months. In another case in the same district one Gopal Chandra De was arrested at Belghuria with 101 ounces of cocaine. The stuff was transported from a Calcutta smuggler and was intended for sale in the mill area of the Barrackporo subdivision. The accused came by rail from Sealdah and was proceeding to Jagatdal when he was induced by the informer to get down at Belghuria. A punishment of 12 stripes was inflicted on the accused by the Subdivisional Officer of Barrakpore.

HE CALCUTTA (LETTE, MAR. 8, 1922.

BARTMENT OF AGRICULTURE, BENGAL.

econd forecast of the Wheat Crop of Bengal, 1921-22.

Nors.—On an verage of the five years ding 1919-20, the area under wheat in Bengal has represented some the per cent. of the to a area under wheat in India. The ratio of the irrigated wheat acreage is total wheat acreage it (a) British India and (b) in the territory now reported on has in the five years ending 1919 30 averaged (a) 42°3 and (b) 16°0 per cent., respectively.]

Character of the season—As reported in the first forecast, the rainfall in September and October, though generally defective, was adequate for the preparatory tillage and for the sowings of the crop in normal time. Since then, prolonged drought and consequent lack of soil moisture has greatly affected the germination and growth of the crop in most districts, and the present condition of the crop, though a little improved in some northen districts by the scattered rain in January, is unfavourable on the whole.

Area sewn.—According to the estimates of the District Officers, the total area sown amounts to 124,500 acres this year against 116,200 and 116,900 acres reported, respectively, in the corresponding and final forecasts of last year.

Outtoen.—From the District Officers' estimates, the provincial outturn works out at 69 per cent. of the normal this year against 81 and 86 per cent. reported, respectively, in the corresponding and final forecasts of last year.

G. EVANS.

Director of Agriculture, Bengal.

DACCA, the 27th February 1922.

APPENDIX I.

Second Forecast of the Wheat Grep of Sengal, 1921-22

Districts	Betimated pormai		ares doder	be the aver	to represent, whit middle age outturn cropped.	Date on which the cowling of the rop was begun the year and whether that	Remarks by District Officers.
	the wheat neop.	Last year (1930-71),	This year (1831-13).	Last year.	This yest.	date was easy, normal or hite.	
Redia	Acres. \$8,100	Acrus. 12,600	A. Carush . 13,100	60	43	Middle of Novumber.	Since the submission of the first towards, some yave lands were seven in the Kuchtla subdivision causing as lacroses in area. Swing to the cattra constitue of raise all through, the blue growth of the plants has been reaceded and the outdoor is expected to full much below the normal.
Murakidabad	69,500	32,700	91,600	, bu	47	Some,	The decrease in area is due to want of rainfall at mounting time. The weather has not been investable. Continued drought has sturned; the growth of the crop.
Јешосе	D009.2	899	900 900	28	80	October. Mormal	The weather hee not been favourable and the growth of the erec not good. Much damage has been doos by drought.
Burdwan	/ m.000.	\$,000°	31, 200	79	67 .	Middle of October.	The increase in area is reported from the Amanai sub- division. The weather has not been invoscoble and the outtorn is adjusted to be being the normal.
Birbham	d,100°,	8,000	6,100	93	60	Middle of Morember. Normal.	The weather has not been favourable. The decrees in cattern is due to localized rainfall.
Bankura	3,5000	B,600°	3,500	47.	7.5	Novamber. Normal	The decrease in area is due to insufficient rainfall in November. The weather has been fair. The outsura is below the normal owing to insufficient maisture in the soil.
Midnipore	900	800	800,	,90 ,90	7.5	Titista	The weather has not been favourable. The fall is out- turn is due to drought.
Hooghly .	3,400	1,700%	1.700*	67	67	Beginning of November, Late.	The weather has not been investibile. The outturn in- expected to be much below the normal owing to absences of rain.
Bajahabi -	L8,600	8,000	9,500	180	6.3	November. Normal	The increase in wreats the to increase it prices. The weather was unfavourable at the beginning owing to want of rain. But the resent rain has improved the condition of the crup. The outtern is expected to be below the normal for want of rain which has canned distinger to the artest of two annea in the Mater subdivision.
Diesipur .	1,400	1, 1100	1,800	41	37	By the and of Ostobur. Normal,	The condition of the crop has improved by the meent rais. The custurn is axpected to fall helps the sormal owing to unfavourable weather.
Julpatguri .	B00	800	600	32	90	First week of November, Normal.	The decrease in area is due to unfavourable weather at sowing time. Since the subminion of the East forecast, the weather was favourable in Alipsi subdivision but unfavourable in the Chaklejat entains in Badar a bdavision. The decrease in outtarn is due to want of mentalous following.
Darjeeling .	4,809	3,500	1,600	-	1 99	Last week of Septem-	The westier her been fulriy favourable.
Reagpter .	3,000	3,400**	3,400*	100	100	Beginning of November. Normal.	The weather has been favourable and a normal numbers in skeptoted.
Bogra .	100	900	800	80	90	Middle of November. Normal,	The weather was not farourable since the sobmission of the first forecast, but the recent rains have freshered the crop and have been beneficial to its growth.
Pabus .	16,000.	1,000	6,400	67	4 7	Dieba	The decrease in area is due to indifference of calilymans to grow this crop. The weather was farmqueble for cultivation bab continued drought time the sowing time has related the growth of the orip to some extent. About two-thirds of the crop have best damaged by drought.
Males .	60,000	40,000	48,900	TDO	75	Mud of Ootober. Mg- und.	The decrease in area compared with the first farecast be due to continued drought after sowing and to revision of sutmates. Continued drought has retarded the growth of log crop to some attent but the severy ratio is somewhat improved the condition. Some damage has been cample by drought. The outsure is anticipated to fall below the mormal for want of ratio.
Duces .	4,100	4,900	8,800	. 68	tt8	Middle of November: Normal,	
Mymeuringh .	100	800	200	884	, 100	Beginning of Novem-	The weather has been favourable and the ontarn in expected to be normal.
Periapur .	3,700*	3,600	9,900	68	46	Bad of Ooboher, Noc-	The increase in area is one to increased outsivation of the crep in the fees which subdivision. Want of pain has been det incental to the growth of the map and has caused damage to the crop to a counterable extent.
Total Bougal.	110,000	126,900	194,800	64	49		

SUPPLEMENT T THE CALCUTTA GAZETTE, MAR. 8, 1922.

DEVARTMENT OF AGRICULTURE, BENGAL.

Second Forecast of the Spring Ollseed Crops of Bengal, 1921-22.

[Nork.—On an average of the five years ending 1919-20, the area under linesed in Bongal has represented some 5'3 per cent, and that under rape and mustard 19'0 per cent, of the total area under those grope British India.]

Character of the season.—As reported in the first forecast, the rainfall at the beginning, though defective, was adequate for the preparatory operations throughout the Presidency except in parts of West Bengal. Since then, with the exception of scattered rain in January, which was too late and proved insufficient, the weather has been dry and the consequent lack of soil moisture has adversely affected the crops specially in the western districts. As a whole, therefore, the season may be regarded as only fair for these crops this year.

Presidency Divisions. In the other two divisions the cultivation is small. The total area under these crops (excepting sesamum for which separate forecasts are issued) is returned at 1.086,400 acres this year as against 1,037,500 acres and 1,035,800 acres, respectively, in the corresponding and final forecasts of last year. The decrease in area compared with the first forecast is due mainly to revision of Mymensingh figures on the basis of settlement records.

Provincial outturn of the different oilseed crops works out at 74 per cent, of the normal against 76 and 77 per cent, respectively, in the corresponding and final forecasts of last year.

G. EVANS.

Director of Agriculture, Bengal.

DACEA, the 27th February 1992.

APPENDIX L

Second Forecast of the Spring Oliseed Cops of Bengal, 121-32

Disjriot.	Name of op ing offered groups,	Intiracted normal area under apring olimata	Bitimated a		Takin to forces normal, wi be the av- turn pe gropp	net to ld	Date by which the barvasting gene- rally commented this year, and whether that does was early, Deemal	Berngrim by Dinksies Officers.
		Q(amount	Tast year (1980-31).	This year (1931-19).	Last year.	This year.	or late.	
(Linesed	Acres. 1,000	Aures.	Aores.	76	23		*
24-Pargauss	Rape and mustard Utther eliments (ex-	4803	\$00 \$004	1007	74 67	67 91	End of December to February.	The weather has been favourable on the whole. The outturn is expected to be below the normal carlon to want of value which has careed damage to the Essteinsh
	Total	, 3,660	1,600	1.700	74	72		eub matelon.
ſ	Linsord	\$6,700	12.760	\$ L,660	, 60°	42	Not per commenced	The contraction in uran compared with last year to die to want of rein at saveling time.
Madia {	Rape and mustavd	28,600	14,090	18,400	80	43	Middle of January.	The entire countion of rain all through the season has affected the growth of the plants and the outsire is expected
,	ing (ff).	98,100	66,300	48,908	30	49		ec fall mirch below the normal.
(Edmand on an es	20,800	16,400	13,100	67	47	Kas yet openinenced	lost year is due to mufamurable
Murnigidabad <	Rape and muitard	19,000	30,400	18.600	H	67	Middle of January. Normal.	weakher conditions owing to continued drought which has stunted the growth of the drops to some united with the contains a special to fall much below the mermal.
	Other olineads (except- ing (4/).	8,760	3,900	8,406	13	75	Not yet commanded.	And man trans-
	Total no	18,100	30,700	BQ.60()	76	89		
January 10.4	Rays and mustare	49,400	90,000	9,400		10	End of January and February.	The increase in area unter the and i mentard is due to ravision made by the Subdividous Officers. Owing to drought throughout the assume, about
	Dehar ollessde (except-	3,800	9.100	1,000	Į.	10		50 per pent, of the scope have been damaged.
	Total	76,900	24,600	34,600	69	60		
	Linted	900	200	200		67	Bad of January.	The increase in area is don to high price
Khilipa i	Bape and morterd Qther offereds (axcept-	59,700	10,800	16,600		47 83	Normal.	of oil. There has been no rain since the mis- mission of the first forecast which has
	log (il).	61,700	19,600	14.500	, 99	67	-	the outsirs is anticipated to be much below the cormal.
	Edorend	11.000F	6,100	6,400	98	84	February. Nor-	The dearrant La area is due to early clear of phins.
Burdwan	Rape and mustard		9,000	7,000	1	60		Owing to drought, the germination and
	Lug 48).	1 200	\$4,400				944	growth of the crupt have been good. Some damage has been occured by drought.
	Total	mos.		70				
Biroban				1,90	0 75	71	By the end of	! The weather has not been favourable and the outbire is expected to fail below the normal.
	Other offseeds (except	- 909	8001	20	0 178	78	J	Charg at paral series deams.
	Total	8,900	8,100	3,60	U 71	71	i i	

^{*} Conventional area. \$ Including the area under concentut.

SUPPRIMENT TO HE CALCUTTA GLZETTE, MAR. 8, 1922.

	Nation of siring of a real rope.	Retirented acressi area nutter which streets.	Metal months of a story of a	iena produc diamodu-	0.797661	n 100 to h - northwells aid - e the nutturn cropped.	Date by which the harvesting generally commen- and this year and whiches that date was beely, normal	Rengrius by Pictrics Officers.
Spin.			Lent year (This year (1901-97).	Last year.	This year	or late.	
		Acres-	Acyon.	Acres.				
	[Linead	3,0001	860	1.200	21	na -	Nat yet commenced	The decrease in area under rape a muchant is due to absence of rain fewing time.
ensiones	Rape and mentard	4,5007 B	4,000	2,100	70	80	Last week of Sanu- ary. Bormal.	The weather has been fair. The cotts is below the normal owing to exceptly ally dry weather.
	Other oilseeds (amorpto- log (ii).	10.000†	3,100	6,000	79	RR.	Morani.	
	Total	18,900	16,700	7,500	75	82		4
	Cannod H	4,900	1,100	1.100		(BH		
Lidanparo _{Jo}	Rape and mustard	18,200	0,400	5,400	D11	75-	Pebruary, Northel	Owing to absence of rain, the grow of the crep has been retarded. I outdoor is therefore expected to
	Other otherds (except-	5,900	8,700	2.700	<u> </u>	er.	j	shared growth of the crops.
	Total	\$5,000	16,200	10,300	19	70		
		1907	700*	700				
fourthly	Linged	3,900†	8,700	8,700	B7	97	Middle of Japanery.	The weather has not been favours
	Other citeeds (except-	4001	700	700	.]		Normal.	and the outturn is anticipated to much below the normal.
	Total	2,400	6,100	- 6,100	47	67		
	/ Lineted	200*	200		67	38	Buginning of Feb-	The weather has not been favoured
lowek -	Rape and mustard	600t	700	460	67	dr.	ruary. Hormel	Fome damage has been done drought and the outturn is expect to be much below the normal.
	Total	900	B00	900	67			
	f Klassed	14,500	12,900	13,100	8 5	47	will begin from latter part of Merch. Normal.	The increase in area under rape a mustard is due to extende outlies in
tajsbuhi	Eape and modern	68,900	16,100	40,600	pB	57	Letter part of January, Nor-	of the crop this year. The weather has not been favours owing to want of rain which i
1	Other offstude (except-	2,300	1,700	1,490	117 .	47	Latter part of March, Normal.	caused some damage.
								*
	Total	49,900	89,000	84,000	If0	67		
	Limed	(403*	(80)	(80)*	160	75	711401	The increase in area is due to high prof supriard.
Dinajpar _	Rape and mustard	70,000	88,700	\$6,600	70	67		The furture is expected to be mu- below the normal coing to unfavor able weather condition.
	Other ollands (axcept- ing Ni).		100	100	100	80		· · ·
	Total	70,000	\$6,800	AB,100	70	67		
								-
alpalguet .		69,400	68,800	41,800	91	RS	Middle of Febru-	The decrease in area, was due to heat
	Other olimeds (szeggt-	200	190	100	100	100	ary, Normal.	rwin at sowing time. Owing to marqual distribution of ra- the weather has not been quite favor able. The propa were damaged to
	Total	69,800	48,900	41,400	83	03		little ext int by heavy initiall aboding time and by the continuous cloudy was her later on in parts of t district. Hence the custom is bel-

anjusting	Rape and minterd Other elimeds (excepting H). / Total Rape and mestard Other elimeds (excepting H).	# CF96. F,000 900 1200 000 000 000 000 000 000 000 000	East year (1929-EE). Acres. 1,600	This year (1921-23). Acres. 1.600	79436 year. 7	This yes	Bround weak of January. Nor-	The waster has been fairly favourable.
anjusting	Other eliseds (excepting Ni). / Total Rape and mestard Other oliseds (except-	7,000 200 2,300	1,600	1.600	100		January. Ror	The waster has been fairly favourable.
anjusting	Other eliseds (excepting Ni). / Total Rape and mestard Other oliseds (except-	1,200 L00,000	£,000	300	100		January. Ror	The wanter had been fairly favourable.
	Total Eapo and mestard Other olloreds (*Zeopt-	f,200	£,000			100		
angput	Rape and mestard	140,040		1,700	940			
angput	Rape and masterd Other olleseds (except-		les ets			63		
angput	Other olisseds (eXcept-		234,000	91,600	100	100	Middle of Juntosty.	The weether her been fargurable and
	tag III J.	3,100	300	900	100	100	6 ormal.	a normal outtorn is likely to me
	Total	161,100	194,200	81,900	100	100	,	
			- 444		70	70	Kiddle of March	Rippo the subspination of the first bore
	Rape and mustard	60,000	14000	14,000	78	73	Middle of Jeasery.	cout, the weather has been dev and not quite favourable owing to absence of moisture. In these Dhupos, th
logra	Other climeds (except-	day and a	800	800	56	60	End of Desember.	oroph have been damaged by insect parts.
. `	log (d).	#1,000	15.000	16,900	14	74		
. 1	Edomid on m	7,000	11,400	10,100	67	87	Not yet southermand	The weather was farourable at sowice
Palma	Repeated mustard	110,000	71,500	76,460	67	67		time, but defective rainfull since the has retarded the growth of an damaged about one-fourth of the company
Į,	Other eliseeds (485/9)- ing (ii).	in in	. 300	\$40	67	-47		
-	Total	117,000	B3,100	E7.000	47	67		
į	Liesepi	5,000	4.700	4,000	84		1	
Maida{	Rape and masterd	00,000	12,000	t#,000	88	76	January shall } February, Rog-	drought. The publish is anti-took
. (Other olimeda (except-	1,500	1,000	1,1607	67	46]*	be be much below the sormal.
1	Total	28,500	ET,700	17.000	Rd	73		:
	Linecod	2,300	1,800	4,800	50	80	Middle of Pobracy	markerd and other olleards was dis-
Discos	Rape and montard	88.400	PB, F00	71,400	80	77	January.	into subsidence of flood water. Owing to continued drought, the grow of the crops has not been very good a
	Other riseeds (except-	1,700	1,700	Lob	80	5.	March.	the crops have been damaged to see extent. The outsurn is therefore a people to fall much below the normal.
	Total	9),400	91,700	75,600	89	77	The dates are normal-	
-	Linned jou	8,500**	1,1000	14,909	. 40	70	Middle of January.	to high prior of cits. The weath
Mystensingh (Rape and intelled	281,0081	984,800%	248,440	40	76	1 .	pro potate carine to area of telu-
1	Other ollesses (except-	\$30*	890*	- 1,700	80	7.5		
	Total	220,500	\$15.200*	349,300	60	75		
	Elmind	5,900	6.900	6,990	8.6	. 88	1+1404	The weather has been fairly favourable. The outturn is espected to full take the normal aring to want of rain.
Veridpur	Rape and mustard	25,700	24,900	21,860	#Ď	- 86		the notational acted to sample pressure.
į	Other ollseeds (szeept-	1,100	11000	1,900	61	87		

^{*} Revised on the basis of settlement retords.

^{&#}x27;† Including 200 assess under groundout.

BUT SEMBNT TO THE CALOUTTA GAZETTE, MAR. 8, 1922.

1			ě.			,		
And the second	Name of Pring officed	Nationated wormal arm under opring oliveds	Bellouind eing	area under Kitteda.	Takin to represent the three contains posterior of the contains poster	mat see hat weekd remige ret area	Easte by which the hars stday governily commen- ced this year and whether that date	Remarks by District Officers
		*	Take at	This year (1921-197).	Lest pear,	This year.	or late.	
		Acres.	Aora	, A.Gree.			1	
	Edgewood	4,900°	6,900	4,100	190	198	-144-1	The weather has been favourable and the growth of the crop fair. The our turn is expected to be a little above the
Betarganj	Raps and mesterd	1,000	2,800	3,000	100	108	Pebruary.	воепия.
	Other olimeds (except- ing (if).	100*	106	100	140	100	110-10kg	
	Total -	6,300	4.100	6.200	160	100		•
	Edamed	1001	1901	1001	100	100	Marth	
	Rape and mostard	8,800	2,000	2,000	92	100	Middle of Jasoney	The weather has been been favourable
Chittagung and	,	100						The nutturn is expected to be normal.
Į	Other clineds (except- ing \$60).	100	1.00	100	100	100	March.	
Į	Total	5,800	2,500	4.300	91	100	The dates are normal,	
	· Ligação « » »	4,200	E,500°	4.200	67	01	}	
Tippica	Bape and mustard	28,009	28,9001	15 ₂ 400	87	e)	Last part of Janu-	The increase in area as compared with
	Other oilseeds (except-	800	500	800	48	67	ary, Bormal.	last year is due to rise in price of the crops. The weather was Javourable at sowing thus, but has since been sufferent public owing to wout of rain for the last two
	Total	\$3,800	\$9,600	30,100	67	88		months and the autturn is ampeated to fall below the normal,
						,		
	Limited ***	4,000	7,100	7,100				,
Maskball	Hape and savetard	600	600	600	190	100	Not yet began	The weather has been favourable on the whole, want of measurable rate has retarded the growth of the crops to some extent. The outting is expected
,	Other vibrods (except- ing SE).	700	980 '	900	j -			to be normal
	Total	6,300	6,400	6,400	100	100		
Chivagong Sin	Rope and promited on	18,900 +	11,000	11,490	50	60	Middle of January. Barly-	The weather has not been favourable owing to drought which has caused some damage.
								·
	Linesed	1008,100	125,200*	281,000	44	63		
Total Bougal	Other eliseeth (except-	1,148,500°	881,780° (87,800*	906,800 	79	TE BE		
	iog M).		*******	an(U/	14			
	, Total	3.871.190*	1,016,600*	1,000,000	27	F4		
		Bevisec.		1			† Overvetional er	

SUPPLEMENT TO THE CALCUTTA GAZETTE, MAR. 3, 1922

Statement showing the yauge readings at Those Water-work on the River Burlgangs for the week ending the 18th February 1922,

Dete	ALT A.W.	AT NIGGER	WATER.	AT ROWSE	WATE	100.70			
	A1 7 A.W.	Time.	Bendikupi.	Time,	Ry lings.	Att 4 vills	Remarks.		
1922. 12th Feb.	5218	11-20	54-2	444		52'2	E- T- 86) i-80,		
TSth n	\$2.6	12-15	54'8	***	1 ***	62.8	H. T. at 19-96.		
146h n	52-2	18-0	.54:5	6-45	52.2	63.9	F. T. at 74 and R. T. at 13-15.		
15th ,,	52.5	18-50	54°4	7-80	52.8	55:4	P. T. at 7-st and E. T. at		
16th "	62-45	14-30	64:25	8-15	52.3	53.3	P. T. at 8-25 and R. T. at 16-60.		
17th a -	-52.6	15-15	54'2	9-0	52-1	53'4	F. T. at 9-10 and B. T. ht		
18th "	59.7	16-0	54.0	9-45	\$2.5	58.5	F. T. at 10-6 and H. T. at 16-12.		

Notable high and low water levels of previous years.

					High.
37th August	1906	-91	111	***	70-6
5th September	1909	нь	244	***	87:86
10th August	1910	194	pa e	70.0	R9-86
lat 11	3911	be a	68.4		68-46
18th	1912	440	***	484	67-16
Blut g	1915	474		411	69-7
18th "	1916	954	444	717	68.1 Taken at high tide.
12th ,,	1917				67-1
W4-4	1918		PR-4		69-12
M- A	1919	D+ 10	111	***	60.8
8th September		***	+4-	-0.0	
	1920	***	411	+	66-9
28th July	1922	p 4 ==	dele	***	68.4]
					Iow.
90-d 2.1.	1007		-		
28rd Fobracy	1907	949	***	444	61.06
18th p	1908	455	***		61106
12th March	1912	46.0	5.11	deserve	1 10011
6th ,	1014	***			80:60
22nd February	1915	100			50.80
16th n	1916	411	111	414	50 60 >Taken at low tide.
Brd Margh	1917	144			51.0
21st Pebruary	1918		++-	144	51.40
460 k k	1938 .	484	14.1	71.0	
1016	1920	484		4.4 +	584
St. Co. St.		199	146		50.9
19th 9	1921	4 = 4	446	177	50-9

W.B.-Zero of the gauge at Daoca Water-works = - 4861 with reference to P. W. D. dainu.

DACCA,
The 22nd February 1922.

BENODE BEHARI ROY, for Executive Engineer, Dacca Division,

SUPPLEMENT TO THE CALCUTTA AZETTE, MAR. 8, 1929.

Boalle for the took andings on the river Ganges at Samper Boalle for the took anding the 25th February 1922.

Date.		Hoer.	Height of and the above or bed surpro; subbase sign and the best below was a line of the best below was a line of the best below the best best below the best best best best best best best bes	Height of surface above mean sea-level according to P. W. D. datum.	Height of surface above mean sea- level on the name date hat year nepording to P. W. D. danum.	Rantacks.
1922. 19th Feb. 20th w 21st w 22od w 23rd w 26th w 25th w	400 400 400 400 400	8 A.M. 8 11 8 11 8 11 8 11 8 11	Zero of gauge is at mean sea-level.	36'55 86'56 36'50 36'50 36'60 86'45 36'45	36°36 36°30 36°30 36°30 36°26 36°20 36°15	P. W. D. datum 6:25 feet ahove Kirlderpore old dock edl. B. M. on College step 54:95.

					Old value.	-		According to P. W. D. datum-
The previou	*** .	Lowest	water-lavel		59:39 on 7th September 1921 83:39 on 21st April 1921		ah 1	60-80 84-90
Record	494	Highest		401	89 26 on 26th August 1879		***	64:44 64:37
Do.	hel d	Ditto	77	844	69 08 on 9th September 1886		147	68-47
Do.	444	Ditto	30		88'80 on 25th August 1906		***	68 40
Do.		Dirto	99		58-21 on 26th August 1890		4114	82-82
Do.	 144	Lowest	71		87 68 on 26th April 1884		144	58-91
Do.		Ditto	12	144	88-18 on 14th and 15th April 1888			84-31
Do.	***	Ditto	6.0	+++	\$902 on tiet and 22nd April 1697		***	
Do.		Ditto	10	100	8928 on 6th and 7th May 1908		+ ===	84'47

N. S .- The gauge readings commenced from the lat August 1887.

BOALIA.

S. O. BHATTACHARJI,

The 25th February 1922.

for Executive Engineer, Rajshahi Division.

Statement of weekly gauge readings on the rivers Ganges and Brahmaputra at Goalando for the wook ending the 25th February 1922.

Most's and date.		ilon,	Seight of surface above or below esec of gauge.	Reight of an face above mean manipute.	Height of surface above menu seu- level on sums date last year-	Remarks.				
	1923.									
19th	Feb.	1.11	7 A.M.	6.9	5.9	4.8	Zoro is placed at mean sea-level.			
di Oth	91		7 11	5-6	5.3	44	The bench-mark for the gauge i			
Ent	35	4.0=	T 19	5.5	5.1	4-8	on a pueva pillar between th			
2nd	41	484	7 11	51	6.1	5.0	passenger ghat and Chamipu			
Brd	71	464	1 11	P.1	5-1	5.3	ghat.			
26th 25th	17	. 414	7 11	5.1	5.1	5.3	Its reduced level is 26:84.			

			-			
The previous ye	360	49	Bighest v	water-level		25-8 on 27th July 1921-
Ditto	. 101	111	Lowest	91	448	48 on 19th February and 4th March 1921.
Becord (H.F.		парията	Highest	7t		25.75 on 28th August 1906.
Record (average	s flood in l	Brahma-	Thinks			25-74 on 20th and 21st August 1893.
Record (H.F.	oken)	na francisco	Ditto	19	-44	PO 14 OH 2000 has Dist to Beet them.
and Ganger)	144	***	Ditto	71	144	25:86 on 11th to 17th and 81st August and an 1st to 8rd September 1869.
Record (H.F.		nehutte	****			Office and Distriction Little
- nn:	ly)	9+0	Ditto	.11	414	
Da.	79.1	844	Lo west	15	rd 8	1 0 on 8th February 1914.
Do.	701	***	Disco	19	+++	242 on 18th March 1906.
Do.			Ditto	M .	400	291 on 21st to 24th February and 8th to 9th March 1884.
Do.		II	Ditto	D	****	8-16 un 9th to 11th March 1886.
Do.	200	- 11	Ditto	1 11	***	8-16 on 16th, 17th and 29th to 81st March 1901.

N.R.--The gauge-readings commenced from and Ontober 1909.

RAJBARI,

R. C. GUHA,

The 25th February 1922. for Subdivisional Officer, P. W. D., Faridpur,

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DISTRICT REPORTS ON WEATHER AND CROPS

For the week ending on the 1st sarch 1822.

summery.—Excepting some scattered rain in places of Darjeeling and Cooch Behar, the weather continued dry throughout the President y. Harvesting of spring crops is progressing. Rain is badly needed for the cultivation of lands for jute and other autumn crops. The average price of common rice for the Province, has fallen by about 2 per cent. as compared with that of the previous week.

geria i	guntrion and	Help fall.	PRICE OF O	OMMON HIGH, IN PAR NUPER.	Character of the weather, easilistes of acous, etc.				
Agrin I Ho-	mibdly state.		This week.	Pzevious week.	-				
l l	2 -	3	4						
		Inches.	-						
ı	24-PARGANAS	Nil s	5#	51	Lands are being prepared for any paddy and jute. Effect of weather on the grope is good. Fodder, and water are				
	Diamond Harbour.	Nit.	21g	6#	sufficient.				
4		27:1	C)	(44)					
	Barnsat	Nil Nil	6± 6±	(n) 6±					
	Basirhat	Nil	64	64					
2	NADIA	Nil	7	614	Harvesting of rabi crops continues. Rain is wanted for				
	Kushtia	Nil	61	6#	ploughing. Cattle disease is reported from Kissenganj and Chakdah thansa.				
	Meherpur	Nil	74	7,5					
	Chuadanga	Nil	7₺	71					
	Ranaghat	Nil	64	6					
3	MURSHIDABAD	Nil .	74	7‡	Prospects of standing crops are fair. Fodder is sufficient. No large import and export of rice.				
	Lalbagh \	Nil	7	7					
	Jangipur	Nil	7≟	74					
	Kandi	Nil	8	• &	*				
1.				-					
4	JESSORE	Nil	81	8	Weather sensonable. Caltivation for jute and paddy is going on. Prospects of standing crops are not favour-				
	Jhenidah	Nil	9	9	able for want of rain. Export of paddy is reported from Bongson and Jhenidah sabdivisions. Fodder and				
	Magura	Nil	9	9	water are sufficient.				
	Narail	Nil	. 9	9	,				
	Bonguon	Nil	84 -	8	•				
5	KHULNA	Nil	8	8	Buin is wanted. Scarcity of drinking water is beginning to be felt in some places.				
	Satkhira	Nil	8	8					
	Bagerhat	NH	(n)	8					
4-				*	•				

LEMENT TO THE CALOUTT GAZETTE, MAR: 8, 1922.

		y plant man a large	PRIOR OF COMM	or uses, in	•
136	Dimele ministra	Raiofalk	This water P	Marien meer	Oneynoter of the weather, condition of grops, she.
				•	
ij	1	Inches.			
6	BURDWAN	Nii	6	6	Weather warm. Rain is wanted. Threshing of winter paddy continues. Pressing of sugarcane has commenced, Standing crops are doing well.
	Asansol	Nil	54	51	Continuing proposal a grown
	Katwa	Nil .	64	64	
	Kalua	Nil	6#	69	
7	Віввич	Nil	61	6‡	Condition of standing orops is felr. Fodder and water are sufficient.
	Rampurhat	Nil	61	61	
8	BANKURA	Nil	7	7	Export of rice and paddy continues. Pressing of sugarcase is going on.
	Vishnupur	Nil	7	7	
9	MIDNAPORE	Nil	7,8;	7,3	Harvesting of rabi crops continues. Rain is wanted for ploughing. Fodder is sufficient.
	Jhargram	(11)	. 7	7	
-	Ghatal	Nil	78	(11)	
	Tamluk	Nil	7#	71)*
	Contai ·	Nil	84	91	meth."
10	Ноосных	Nil	5	5	Effect of weather is favourable to the growth of crops, but rain is wanted. Fodder is sufficient. Price of rice is
	Serampore	Nil	61	61	steady.
	Arambagh	Nil	62	6	
11	Howrah	Nil		6‡	Weather seasonable. Prospects of standing crops are fair
	Uluberia	Nil		7	
12	RAJSHABI (RAMPUB-	Nil	7	7	Prospects of standing crops are fair. Fodder and water are sufficient.
	Boalia).	Nil	7 g	77-	人
	Nator	Nil	74	71	
13	DINAIPUB	Nil	8 8	7] 8	Harvesting of rabi crops is going on. Fodder an water are sufficient.
	Thakarguon	Nil	7	81	
	Balurghat	Nil	71	71	
14	JALPAIGURI	Nil	7	7	Prospects of subi crops are favourable. The outturn of potatoes is fair. Harvesting of tobacco has commenced
1	Alipur	Nil	8	18	in some places.

			PRICE OF COM	KI "BOIR KOM ARTUR AL	Character of the weaking, and time proper str
Secial Sie,	District and	Raisfell.	This work.	Pressens wask.	
1			. 4	•	
7		Inches.			
15	DARJEELING	0.78	43 -	41	The sowing of maise is in progress. Fodder and water are sufficient. Cattle-disease is reported from places.
	Kurseong	Nil	- 61	7	
-	Siliguri	Nil	7‡	7 i .	
.	Kalimpong	0:35	6	(n)	
16	RANGPUR	Nil	81	8	Prospects of standing crops are good. Fodder and water are sufficient. Cattle-disease is reported from Kurigram.
	Nilphamari	Nil	9	9	
,	Kurigram	Nil	81	8‡	
	Gaibandha	Nil	72	72.	
17	BOGRA	Nil	81	81	Lands are being prepared for our paddy and jate. Rain is necessary,
18	Pabna Sirajganj	Nil Nil	7	7	Prospects of standing crops are fair. Rain is badly needed for the preparation of lands for cas paddy and jute. Harvesting of mustard is finished. Pressing of sugarcane is in progress. Fodder is sufficient.
19	MALDA	Nil	7‡	71	Harvesting of sahi crops and transplantation of fore paddy continue. Fudder and water are sufficient.
	-				
20	Соосн Винал	0-02	9].	91	Weather seasonable. Cultivation of lands for bitri paddy and jute and cutting of tobacco leaves and gathering of mustard seeds continue. Fodder and water are sufficient.
					- Int -inht Harvesting 6
21	DACCA	Nil	6‡	62	Weather is hot at day and coul at night. Harvesting of stable crops is in progress. Condition of standing crops is not satisfactory for want of rain. Rice market is
	Manikganj	Nil	8	8	steady.
	Narayanganj	(n)	8	71	
	Munshiganj (a)	Nil	(n)	74	
32		Nil	74	71	Weather cool and dry. Harvesting of rabi crops I nearly finished. Preparation of sail for jute and paddy continues finished. Preparation of the standing crop
	Jamalpar		8	8	Rain is hadly needed. Troughout are symbole. No cattle
	Tangail		711	- '8	disease is reported.
	Netrakona		. 8	74	
	Kishorganj.	Nil	8		8

(a) Munshiganj being very near to Daoua and Narayanganj, its rainfall statistics are not quoted. To give information regardless the formation part of the district, rainfall figures for Espacia thank are reported here.

(a) Not reported.

MENT TO THE CALCUTTA AZETTE, MAR. 801922.

25	THetriot	Balmfall	PRIGHT OF C	ONNON RICE, IN	Character of the weather, condition of cross, sto-
	Subdivisio	E DATINGO	Tale week	Provious wests	- Company of the Arm Management of the State
E per	3		4	5	
		Inches.			[*
23	FARIDPUR	Nii	{ 8 .	8 }	State and prospects of standing crops are favourable. Folder is sufficient. Cultivation of lands for jute and
	Goalundo (Rajbaci).	Nil	7±	74	paddy is continuing. Bain is wanted.
•	Madaripur	Nil	9	18.	
	Gopalganj(a)	Nil	(n)	9	
24	BAKARGANJ (BARISAL).	Nil	8#	8±	Weather seasonable. Prospects of standing crops are lair Forder and water are sufficient.
	Pirojpur	Nil	81	81	
	Patuakhali	Nil	8	8	
	Dakshin Sha- bazpur (Bhola).	Nil	713	714	
25	CHITTAGONG	Nil	{ 7 ± 6 ± *	7± 6‡*.}	Cultivation of rais crops is completed. Prospects of standing crops are fair. Fodder is sufficient. Panga-
	Cox's Bazar	Nil	8	7	salt is selling at 10 and 94 seurs per rapes at Sedar and Cox's Bazar, respectively.
1			1		-
26	TIPPERA (COMILLA).	Nil	71	71	Prospects of rabi crops are unsatisfactory; rain is hadly needed.
	Brahman- baria.	Nil	7‡	618	
	Chandpur	Nu	8	8	
27	NOAKHALI	Nil	74	78	Weather seasonable. Rain is badly needed. Fodder and water are sufficient.
	Feni	Nil	81	81	
28	CHITTAGONG	Nil	(n)	(n)	Condition of rabi crope is unfavourable.
	HILL TRACTS.		(14)	(14)	· · · · · · · · · · · · · · · · · · ·
29.	TRIPURA STATE.	Nil	7	7 18	Weather seasonable. Jute is selling at Rs. 6 per maund and cleaned cotton at Rs. 18 to Rs. 35. Folder and water are sufficient: Cattle-disease is reported from two divisions. Harvesting of rabi oroga-and transplantation of bore rice are nearly finished. Clearing of foom has begun.
:				1	

^{*} Burma rice.

(a) The rainfall at Haridaspur which is very coat to Gopalganj is shown here.

⁽n) Not reported.

SUPPLEMENT TO THE ALCUTTA GAZETTE, MAH.

List of prices of articles of food at Chibutta desing the rook India Saturday, the 4th March 1922.

Names of articles.	Wno			1	Wholesale price er						
Names of artifies	From	From-				F	rom-	*	To-		
Kiće—	Rs. A	. p.	Rs.	A.	P.	Rs	. A.	P.	Ra.	A.	P
Balam, coarse	5 12	0'	6	4	0	0	2	6	0	2	9
ma a di mad	2 16		7	8	Ď.	0	2	9	0	3 2	Ü
	12 1		1	~		0	2	6	0	2	9
Patnai coarse	1 8 16		6]	0	0	Ü	2	9	0	3	Ü
medium					U.	Ď	8	6		_	•
Nagra, coarse	4 .					_	3	3	4.	*****	
" mediam		_	**			0	2			****	
Dudhkaima	7 4	0				0	3	8			
Rangoon Boiled						0	2	6			
Kajla	4***	14	8.1			0	2	3	4		
Wheat, Dudhia	9 10	0		140							
Town of t	7' 12	0									
D. Danni (ml. ala)	2 19					0	4	0			
	111 4		11	8	0	0	5	0			
,, dal	7 8			2	ŏ	Ŏ	4	õ	n'	5	(
Mung " (Hari)			' 1		U	ő	5	Ü			1
" _ (Krishna)			4.9	7	n	0	3		o.	Ā	,
Arhar ,	8 0	- Ann	11	Ò	0		0	0.1	0	4	(
Masur , (split)			P II			0	- 2	6	0	2	-
, , (Khanri)	8 8			-1-		0	24 3	0	-		
Kalai ,	6 8			2	0	- 0		0	,=		
Salt	2 5	6	2	7	0	0	1	3	0	1	- 6
Sugar (Brown Java)	12 0	0	13	8	0	0	6	6	0	7	(
Don Dhali				} de = -	_	0	5	0			
Diament 6		** '		****		Ŏ	4	Õ			
	7 8	0	9	0	0	ő	6	ŏ			
Milk			24	Ü	ŏ	0	11	Ď	0	13	(
Mustard Oil		0	23	v	U			6	0	5	ì
Flour (Country)				1 1 10		0	4	0	0	a	-
Atta No. 3											.,
21			1			0	3	6	0	- 1	(
" "В	9 14	0	1)						1		
Suji	10. 6	0				0	5	0	-		,
Ghee (Bhadwa; Matki, etc.)	44 6	0	1			1)					
Datimon Vinnia Data			1			11 .	w 10				
Etwa (better kind), etc.]	, , ,					1	15	0	2	4	
	1 60	0 (62	0	0						
" (Lalli, Etwa, Sagar, etc.)			02	U	U						
Maize		5 0	4**			B.		0	0	i i	*
Potatoes	. 3	0 0	4	0	0	0	2	0	0	2	
Brinjai						0		6	0	2	
Onion	4 1	2 0	5	0	0	0			0	2	
Fish, Rabu	7.5	0 (18	0	0	0		0		o other dis	a
Mattan (9ad alosa)						1	0	0	1	4	
MALIA CON (2000 CON 86)											

N.B .- This is an abstract for price of the following markets :-

Wholesale.-Chetla Hat, Ramkrishoupur Hat, Sealdah Fish and Milk Markets and Posta Banar.

Retail.—Sir Stuart Hogg Market, Orphanganj Market, Sova Bazar, Notun Bazar, Raja Babu'a Bazar, Karaya Bazar, Taltola Bazar, Mullick Bazar and Jogu Sabu's Bazar.

H. L. MUKHARJI,

for Commissioner, Presidency Division.

CALCUTTA, the 4th March 1922.

AZETTE, MAR. 8, 1922 EMENT TO THE

otion 43 of Bangal Act V of 1911. Notice under

Scheme Nell XXII—Nebutola Lane Widening.

(St. Jame Square to Bowbazar Street).

The Board of Trustees or the Improvement of Calcutta hereby give notice that a Street Scheme, viz., Scheme No. XXII (Nebutola Lane Widening; St. James Square to Bowbazar Street) has been framed for the area bounded as follows :-

On the North-From a point on Bowbazar Street at the north-western corner of premises No. 119, Bowbazar Street running castwards along the southern edge of Bowbazar Street to a point on the southern edge of Bowbazar Street about 50 feet from the north-eastern corner of premises Nos. 124 and 124-1, Bowbazar Street.

On the East-From this point southwards in a line with the eastern edge of St. James Square to the south-western corner of 8, St. James Square.

On the South-From this point westwards along the northern edge of St. James Square South and then across Nebutala Lane along the northern edge of Hidaram Banerjee Lane to the south-western corner of premises No. 41-1, Hidaram Banerjee Lane.

On the West-From this point northwards in a straight line to a point on the north-western corner of premises No. 119, Bowbazar Street whence at first started.

Particulars of the scheme, a map of the area comprised in the scheme and a statement of the land which it is proposed to acquire may be inspected at the office of the Trust 5, Clive Street, on week days between the hours of 11 AM and 4 P.M. and on Saturdays between 11 A.M. and 2 P.M.

Copies of the above documents will be delivered to the applicants on

payment of the following fees :-

Rs. A. P. 0 4 0 Particulars of the Scheme Map of the area Statement of land which it is proposed to acquire

Objections to the Scheme will be received upto May 15th 1922.

C. H. BOMPAS Chairman.

GALCUTTA, The 3rd February 1922.

GOVERNMENT OF BENGAL, IRRIGATION DEPAR

Approximate return of traffic on the Director and Eastern Canadi for the week ending Saturday, the 25th February 1922, as compared with the corresponding week of the previous year.

			WHEE CO	DING SATURDA FEBRUARY 19	Y, THEE	WEEK ESDING SATURDAY, THE SETH PROBLEM 1921.				
Material of Garino-			Humber of boats.	Weight of our to-	Tollage.	Humber of bould.	Weight of Oarto.	Tollage.		
			,	M de.	, Ks		Mds.	Rĸ.		
Rice and paddy Jute Firewood Other articles	140 140 144	***	777 41 72 846	256,298 17,124° 45,925 252,871	4,466 260 683 2,968	1,042 103 82 953	211,914 43,528† 60,300 263,087	8,634 496 875 3,134		
	Total	148	1.796	571,718	8,377	2,180	679,129	8,139		
Empty boats an	d rafes	***	667	104	2,285	511	488	2,154		
GRAND '		481	2,403	571,718	10,662	. 2,691	579,129	10,293		

* Weight by canni measurement 16,840 † Ditte ditto 69,7126

T. C. BRATTACHARJI,

Assistant Secretary to the Government of Bengal.

CALCUTTA, The 4th March 1922.



The Calcutta Gazette

WEDNESDAY, MARCH 15, 1922.

SUPPLEMENT.

OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of fire rupees per annum if delivered in Calcutta, or seven rupees and eight annas if sent by post.]

RE-ORGANISATION OF THE SERVICES BELOW THE BENGAL EDUCATIONAL SERVICE.

GOVERNMENT OF BENGAL.

EDUCATION DEPARTMENT.

Education.

CALCUTTA. THE 3RD MARCH 1922.

RESOLUTION-No. 464Edn.

READ-

- (1) The report of the Committee appointed to consider the question of the re-organisation of the Educational services below the Bengal Educational
- (2) A letter No. 687, dated the 6th September 1920, from the Director of Public Instruction, Bengal, on the subject of strengthening the district inspectorate.

ernment Resolution No. 872T .- Edu., dated the 9th October 1920,

Wordsworth, Principal, Presi-W. W. Gunn, Officiating Director of dency (Mr. J. W. Gunn, Officiating Director of Public Instruction The Hon'ble Baba Kishori Mahan handhury
The Hou'ble Khan Sahib Aman Ali
Babu Heramba Chandra Maitra, Principal, Mambers. City College ... Bebu Kausik Nath Bhattacharji, Lecturer, Rajebahi College Ral Surendra Nath Sinha Bahadur, Offic ating Assistant Director of Public Instruc-Mamber and Secretary.

a Committee, consisting of members noted in the margin, was appointed to examine and report upon the present pay and prospects of officers of the Education Department below the Provincial Educational Service (now called the Bengal Educational Service) and to recommend such changes

of organisation as they considered desirable, with special reference to the question whether the present graded system should be retained or whether a

time-scale of pay should be introduced.

2. The Committee recommended the introduction of time-scale-pay in place of the present graded system and suggested various rates of pay, and for this purpose they divided the officers concerned into these four categories according to the nature of their work :-

> I. Teaching. II. Inspecting.

III. Ministerial. IV. Miscellaneous,

In coming to the conclusions contained in this resolution the Government of Bengal (Ministry of Education) have generally followed these recommendations.

- 3. The present resolution covers the officers included in categories I and II. The cases of officers included in categories III and IV are being considered separately, and orders will, it is hoped, be issued shortly. The Government of Bengal (Ministry of Education) recognise that the decision to deal first with the officers in categories I and II will cause disappointment among officers of the third and fourth categories, but feel that the comparatively small number of officers concerned and the relief already given to the latter in the shape of ad-interim allowances justify the prior consideration of the case of teachers and inspecting officers who do not receive such relief.
- The question of strengthening the district inspectorate has long been under the consideration of the Local Government. Proposals were submitted to the Government of India in 1918, but were held up for lack of funds. The Government of Bengal (Ministry of Education) have decided to take this opportunity of effecting a long-desired change. Each district will henceforth be under the charge of a District Inspector who will be a member of the Bengal Educational Service, and the present arrangements according to which certain District Deputy Inspectors hold special charge of subdivisions will cease. Each of the 14 Assistant Inspectors (excluding the Special Assistant Inspectors for Muhammadan Education), who are already members of the Bengal Educational Service, will be placed in charge of a district. Fourteen of the existing 28 District Deputy Inspectors of Schools will be promoted to the Bengal Educational Service and be placed in charge of the remaining 14 districts. These 28 officers will in future be designated District Inspectors. They will generally carry out all duties now performed by District Deputy Inspectors, e.g., will supervise primary education in the districts, advise and assist the District Boards, and also such other duties as may be required of them by the Divisional Inspec-tors or the Director of Public Instruction.
- 5. The charge of subdivisions will be entrusted to Subdivisional Inspectors. There will be 61 such officers for the present, including 14 of the present District Deputy Inspectors.

SUPPLEMENT TO THE (ALCUTTA GAZETTE, MAR.

6. The Government of Bengal (Ministry of Education) are now bleased to issue the following orders:—

- (a) The 28 districts will each be placed under the supervision of a District Inspector. These will be (i) 14 Assistant Inspectors of Schools (excluding those for the district Deputy Inspectors of Schools, who will be promoted to the Bengal Educational Service.
- (b) Subdivisions will be placed under the supervision of Subdivisional Inspectors subordinate to District Inspectors. There will be 61 such officers on the scale of pay Rs. 150—10—250.
- (c) Fifty-four officers engaged in teaching work, viz., assistant head masters and assistant head mistresses of high and normal schools, senior grade Laboratory Assistants in colleges, etc., will be placed on the scale of Rs. 150—10—250.
- (d) Twenty-one Lecturers and Demonstrators will be promoted to the Bengal Educational Service.
- (e) Seventy-nine Lecturers and Demonstrators will be placed in a separate Lecturer's service on the scale Rs. 150—10—300 (efficiency har)—10—400, with a selection grade of three officers on Rs. 450.
- (f) Seven hundred and seventy-three officers (viz., 505 English teachers of high schools, etc., and 268 Sub-Inspectors of Schools, will be placed on the scale Rs. 75—5—150 (efficiency bar) —5—200.
- (g) One hundred and twenty-three senior classical teachers of high schools, etc., will be placed on the scale Rs. 60—4—120 (efficiency bar) —4—160.
- (h) Three hundred junior classical teachers of high schools, etc., will be placed on the scale Rs. 50-2-80 (efficiency bar) -3-110.
- (i) Six hundred and one officers (viz., 574 vernacular teachers, etc., and 27 Assistant Sub-Inspectors and Inspecting Maulvis) will be placed on the scale Rs. 35-2-75 (efficiency bar) -3-90.
- (j) Six senior maulvis of the senior section of the Calcutta Madrasah will be placed on the scale Rs. 100-10-200 (efficiency bar) -10-250.
- (k) Four mistresses in Training Institutions for Indian girls will be placed on the scale Rs. 100-10-150.
 - (1) Against the 2,036 posts created as detailed above the following existing 2,036 posts are abolished from the cadres of the services named:—
- (i) Subordinate Educational Service 1,125-

			,
17	4.4	I	Class
38	444	11	11
73	***	III	97
107	8 5 7	14	17
163	+ 4 4	V	- 19
169	4) H	VI	1.6
206 352	***	VII	17
004	× 018	VIII	5.0
1,125		1	10.
71200	111	CRI	To

GAZETTE, MAR. 15, 1922.

ver Subordinate Educational Service 178-23 11 ... 13 ... 57 ... 80 Total ... 178

(iii) Vernacular Teachers' Service (30-1-50) 316.

(iv) Outside the graded service 417-

```
150 - 10 - 250
100 - 10 - 250
                              200
                              180
(Temporary)
                              125
                              100
                     75-5-100
                              -90
                      60 - 3 -
                              -90
                               60
(Temporary)
                               60
                      50--
                              -70
(Temporary)
                      50-2-
                               -60
                               50
                                   ... 19
                      45.
                               -60
                                   ...
                                         37
                               45
                               40
                                         2
                               35
                              -50
                               30
                                       31
                               35
                                       14
                                    ***
                               20
                                       10
                                   100
                                   ... 76
                               18
                                  ... 12
                               16
                                   ... 16
                               12
                                  ... 14
                               10
                                   ... 91
                                8
7
                                  ... 60
                                   ...
                                  ... 22
                                   ... 1
                                  ... 417
                  Total
```

(m) the re-organisation will take effect from 1st September 1921.

(n) the concession of duty allowances granted to Assistant Head
Masters and Assistant Head Mistresses of High Schools and Normal Schools and heads of Middle Schools (including the Junior Madrasah at Rajshahi) will be entirely withdrawn from that date.

7. Officers will be brought on to these scales in accordance with the

following principles :-

(i) Officers promoted to the 35 posts now created in the Bengal Educational Service, will draw the pay of the stage next above their present pay. Officers whose present pay is less than the minimum of the Bengal Educational Service will draw that minimum.

(ii) Other officers will draw the pay at a stage of the new scale applicable to them next above the stage that is nearest to one and one-third times their present pay, or if two stages are equidistant next above the higher stage subject to the condition that no officer shall draw less than the minimum of the scale in which he is placed or more than the maximum. An officer whose present pay exceeds the maximum of the scale in which he is placed will draw that maximum and a personal allowance equal to the excess.

Example:-

An officer going into the scale of Rs. 75-5-150-5-200.

It his present pay is Rs. 50 will draw Rs. 75.

Ditto is , 100 , , , 140.

Disto is ,, 125 ., ,, 170

Ditto is ,, 250 ,, ,, 200 In a personal allowance of Rs 50.

Present pay is for this purpose defined as the rate of pay drawn for 31st August 1921, or in the case of officers on long leave or deputation on 1st September 1921 the pay of their substantive posts on 31st August 1921. No officer will be required to refund any sum which for the period between 1st September 1921 and the end of February 1922 he has drawn correctly under the existing rules as acting allowances.

- (iii) The holders of former temporary posts which by this resolution now become permanent posts will be treated in the same way as the holders of permanent posts and in particular the pay of the temporary posts will be the substantive pay for the purpose mentioned in the latter part of paragraph 7 (ii).
- (iv) Any officer appointed on or subsequent to 1st September 1921 will draw the minimum of the scale in which he is placed if be was appointed on a pay not exceeding the minimum of the scale; otherwise the stage of the time-scale next above the rate of pay on which he was appointed.
- 8. The Government of Bengal (Ministry of Education) are pleased to authorise the Director of Public Instruction to publish nominal rolls showing the names of the posts and the holders of them falling into the various classes above. Local officers will then draw bills according to the principles of this resolution and Treasury Officers have been instructed to meet such bills. Local officers will attach to the bills submitted for payment a statement showing the rate of pay drawn by each man for the 31st August 1921 and the rates of pay claimed for every succeeding month. Only the officer empowered to make an appointment may enable the holder of this appointment to pass beyond the efficiency bar, but all drawing officers may pass provisional orders in such cases and the Treasury Officer will pass the bills. Such provisional orders must be submitted to the appointing authority for confirmation and such confirmatory orders received should be attached to future bills.

9. The Government of Bengal (Ministry of Education) desire to express their thanks to Mr. Wordsworth and the other members of the Committee for the successful manner in which they have dealt with so complex a

ORDER.—Ordered that the Resolution be communicated (1) to the Finance Department of this Government, for information and communication to the Accountant-General, Bengal; (2) to the Director of Public Instruction, Bengal for information and necessary action.

Bengal, for information and necessary action.

Ordered also that the Resolution be published in the Calcutta Gazette

for general information.

matter.

By order of the Government of Bengal,

(Ministry of Education).

S. W. GOODE,

Secretary to the Government of Bengal (offg.).

MENT TO THE CALCUTT. GAZETTE, MAR. 15, 1922.

NOTIFICATION,

irgo: The Hon'ble Sir S. N. Banarji, Kt.

No. 1261M.—The 8th March 1922.—The following is published for general information, under section 41 of the Licensed Warehouse and Fire-Brigade Act, 1893 (Bengal act I of 1893).

S. W. GOODE,

Secretary to the Government of Bengal (offg.).

No. S. 4639, dated Calcutta, the 13th February 1922.

From-J. N. GUPTA, ESQ., M.B.E., I.C.S., Chairman of the Corporation

of Calcutta,
To-The Secretary to the Government of Bengal, Local Self-Government Department.

I have the honour to submit the following report under section 41 of Act 1 (B.C.) of 1893, for the year 1920-21, in accordance with the instructions contained in Government order No. 387T.M., dated the 27th May 1910.

2. During the year under report the fees under sections 10 and 24 of the said Act were levied at 10 per cent. on the unnual valuation of warehouses as in the preceding year.

houses, as in the preceding year.

3. A statement showing the receipts and disbursements of the Licensed Warehouse Fund and a list of jute and other licensed warehouses for the year 1920-21 in a consecutive form, as desired in Government order No. 469M., dated the 14th February 1917, are appended.

Licensed Warehouse (Fire Brigade) Fund.

Statement of Receipts and Disbursements during the year 1929-21,

Parklonjara.		Вимань.					COLLECTIONS.					Raniasion.				BALANCE.		
		Arrest.		Total		Arrest.	Current.	-	Tolal		A.Prose.	gorenot.		Potal.	-	Arrent.	Ourrebt.	Potest
	Re.	Aş.	٨,	Rs.	٨.	Re.	Re.	Α,	Ba.	á.	Re.	Ra.	A.	B4.	Ā.,	Ra.	Ra. d.	Ru.
(a) Licensa feet inviet under scotleds 10 and 94.		1,01,710	6	1,08,214	B	100	1.00.854	8	1,00,864	8		2,144	R	9,144		-	720 8	790
 b) Especialization demand for 1919-26 created affect 31st March 1920. 	80	225		Ba	0	85	5,000		83	0	-an .	b-a					~4*	444
e) Mutation feet levied under gazajon II.		м-		 		***	40	0	- 60	0	ш.	•н		114		444	***	
d) Rates levied under tection \$2 (1) (a)-	-						*41		10+		har	***		***		-47	***	
) Retra levied under spation 15 (1) (5).	100	144		961			***		411				÷	411		***		-+ h
Bates levied under settion 30 (1) (4).		***										hes		MAL			114	***
) Fines and Penalties under the Act.		100	ŀ	411	Ì		1.668		694,1	0	P41	41.		177				
) Contribution from Ocean- ment towards the cost of establishment.	***	en.				-	8,090	0	1.000	0		148	ĺ	844			1947	441
Oppiribation from the							1,41,364	0	1,41,864	0	**1	***		849			104	bes.

						Bis A.
Potel Ruress	801	100		Hell	771	2,46,941 . B
			185	***	664	2,41.946 \$
Net receipts Add — Upening	bal	B 1980		<u></u> ,	100	30.0 0
				Total	Ann	\$.76.95F Q

Disbursements.

		Ra.
(1) Establishment	14+	8,000
(2) Contribution to Fire Brigade	444	2,73,957
(8) Any other special item m specified	411	818
Total	F14	2,76,957
Clusing balance on Stat March 1991		Ma

SUPPLEMENT TO THE CLAUTTA GAZETTE, MAR

List of Jute Warehouses, 1920-21.

Name of Street.

Street or holding number, with the granetoness shown in brackets when more than one.

Ward No. 1.

Bagbazar Street Canal West Road

Chitpore Bridge Approach Chitpore Road, Upper

Ram Krishna Lane Durga Ch. Mukherji Street

Gopal Chand Neogi Lane Galiff Street Shambazar Bridge Road Ultadingi Road

37-1, 37-1-1A, 37-4, 39-2, 39-2-1, 39-3, 39-4, 46.

178, 201, 202, 204, 206, P.1(2), P.5(2), P.5.

21. 1, 1-1, 6 to 6-6(7), 12, 14, 32, 33, 41, 42, 43, 45.

1, 4, 20. . 10-1, 22, 22-4, 25-1, 26.

5. 47.

Ward No. 2.

Ahiritola Street

Beniatola Street Banamali Sarkar Street Ramdhan Khan Lane Bipradas De Lane Chitpore Road, Upper Duttapara Lane Darmahatta Street

Darmabatta, 1st Lane

Hara Ch. Mullick Lane

Mahammed Romjan Lane

Madanmohan Dutt Lane

Hara Ch. Mullick Street

Galiff Street

1, 3, 4, 4-1-8(8), 5, 6, 8, 10-3, 169, 170 172.

... 1, 6. 4-1, 5. ... 1, 1-2, 2, 3. ... 243, 244.

11, 12, 28, 24, 25, 75, 77, 77, 77, 1, 77-2, 77-5, 80, 80-1, 81, 85-1, 75, 77, 77-1, 77-2, 77-5, 80, 80-1, 81, 85-1, 86, 87, 88, 92, 93, 99, 100, 103, 108, 121, 121, 125, 133, 134, 135, 136 to 136(9), 140-1 to 140-5(5), 138, 139, 140-8, 140-9, 140-10, 140-11, 140-12, 140-14, 140, 141, 142, 143-2, 143-4, 143-5, 82, 114, 112, 117, 91. 1, 2, 3C, 4, 5, 6.

1-1. - 1 -

1, 16, 23, 24. 434 14.

3.

2, 4, 5, 6, 7, 7-1, 9, 10, 11, 12, 13, 13-4, 13-6, 16, 19, 20, 22, 23, 24-1, 25, 27,

2-1. Joy Mitra Ghat Street

Manick Bose Ghat Street

Nimtolla Ghat Street Nimtolla Ghat Lane Nayan Sur Lane Natherbagan Street Sovabazar Street

...

Strand Road

1, 1-1, 3, 17-1, 33, 40, 43, 44, 44-1, 46, 47, 48, 50, 49, 36, 36-1, 36-7, 36-9, 20-1, 44-3, 44-2, 44-4. 68 82. ... 15.

111 1A, 1-1, 1-2, 5, 7, 8, 9.

11 (2), 11-1 (2), 22-4, 22-3, 25-1, 25. 2, 8, 12, 16, 10, 29, 32, 9, 36, 38, 48, 46A, 50A, 54, 64, 43, 41, 39, 29, 19, 7A, 11, 5, 1 (2), 15, 33, 66, 67-7 (3).

Ward No. 3.

Badridas Temple Street Canal West Road

Gouribere Lane Halsibagan Road

... 1, 2, 2-9, 4, 24. ... 24-1, 25-3, 26-H-1, 29, 29-1, 30, 35, 35-5, 24-2, 23, 31, 32, 33, 35-4-1.

55, 56, 57, 51.

4. ...

Street or holding number, with the number of warehouses shown in brackets t when more than one. when to

Strand Road

Jaganuath Ghat

Ward No. S.

... Block 1 to 10 (10) and 12 to 17 (6), 58, 192

Port Commissioners' Inland Warehouse,

Ward No. 9.

Beliaghata Road Circular Road, Upper

135. 303.

Ward No. 19.

Convent Lane

... 12.

Word No. 25.

Garden Reach Road

... 9.

List of Warehouses other than Jute, 1920-21.

Ward No. 1.

... 74, 76-1. Bagbazar Street Bosepara Lane 49-1. Bhabanath Sen Street 2 (3). 419 Circular Road, Upper ... 228-2-Н. Grey Street Canal West Road 112, 117, 118.

... 39 (2), 40, 43 (6), 43·H-2, 43-H-3, 42(4), 43-H-4, 46 (2), 46-1.

Chitpore Road, Upper

161-H-18, 176-H-9, 176-H-10, 199-1, 199-1-1 (3), 199-1-2 (2), 199-6, 199-1-7, 199-18 (2).

Raja Dinendra Street Cornwallis Street

153. 81, 82-2, 83, 116, 124 (2), 136-1, 137, . . . 138 (2), 138-1,

Pal Lane Kaliprosad

Chakraburtty 12-3.

Street. Galiff Street

... 18 (5), 18-2, 21-H-1, 22-H-1 (8), 22-H-8, 22-H-4, 25, 1 (4), 2 (2), 3 (7),

Nanda Kissore Street Mohanlal Street Raja Naba Kissen Street Jadunath Mitra Lane Rasicklai Mitra Lane Shambazar Bridge Road

22. ... 79 (4). *** ... 15. 11. 6, 22,

Ward No. 2.

Abiritolla Street Baloram Mazumdar Street Beniatolla Street Bonomali Sircar Street Nandaram Sen Street Chitpore Road, Upper

122, 133, 35. 17, 19, 103, . . . 1-H-15. 141

Brindaban Basak Street Duttapara Lane Darmahatta Street Kasi Mitra Ghat Street Madan Mohan Dutta Lane Nimtolla Ghat Street Mahammed Romjan Lane Natherbagan Street Sovahazar Street

... 216, 217, 220, 230, 262, 260 (2), 316, 331, 332. 26. *** 5.

71 (4), 71-1 (2), 72 (8), 180 (4). ... 31, 32 (2), 83. 5, 6 (5).

5, 6 (5). 71-1, 80, 82, 56-1(3). 4, 6(4), 11(16), 17(2), 22-1(3), 13-2. 4.04

...

98, 100, 101(2), 103, 110, 122, 126, 67-10(3), 67-11, 67-H-18. 1 4

Strand Road

SUPPLEMENT TO THE CALCUTTA GAZETTE, MAR

Name of Street.

Street or holding number, wit Warchouses shown in h when more than

Ward No. 3,

81. Beadon Street Brindaban Bose Lane 30. Chitpore Road, Upper 149. 2.03 ... 76-1, 148. Cornwallis Street Circular Road, Upper Manicktolla Road ... 254, 146. ... 114-H-1. 101 Masjidbari Street ... 167-Н-9. Grey Street Raja Dinendra Street 26-1(2), 8. 441 2(2). ... 9-3 Pearimohan Sur Lane Ultadingi Road 2. -... 91. Durga Ch. Mitra Street Canal West Road ... 21. 19. Raja Raj Krishna Street

Ward No. 4.

... 1. Bahir Mirzapore Road 17. Bepradas Lane Circular Road, Upper 120, 121, 258, 258-15-2, 995, 289(2), 15-H-1(2), 15-H-2, 16-H-6, 16-H-17, 16-H, 17-H-8, 17-H-9, 17-H, 17(2), 17-H-30(2), 17-H-35(2), 17-H-36, 18-H-6, 18-H-2, 18-H-3(4), 18-1(2), Uanal West Road 18-3, 18-H-4, 19(6), 19-H-41, 19-9, 19-1, 19-H. ... 3-H-3, 4-k, 5-1, 5-3-H-1, 5-H-2. Gas Street 95. Garpar Road 67, 68. Machuahazar Street Nanda Kumar Chaudhuri 2nd 19, 24. Lane 2. Rajendralala Street

Ward No. 5,

... 4 2. Bagak Street Brajagobinda Shaha Lane ... 1. 17, 28. Darpanarayan Tagore Street ... Bartolla Street Chaitan Ch. Sen Lane ... 35, 82(2). ... 2. Banstolla Street ... Dayahaita Street ... **2(3)**, 60, **66**(5). 3, 8. 8-1. Jagamohan Mullick Lane 4.1 357, 391, 402(7). Chitpore Road, Upper ... 115(3), 117, 117-1, 119/3), 125(2), 130, 131, 132(2), 133(3), 134, 125, 138. Cotton Street 9-1. Kalakar Street 37, 38(6), 41, 41-2, 41-3, 50, 52, 61, 62, 63(2), 65(13), 65-1(31), 66, 67, 68(2), 182, 183, 184, 185, 186, 187(12), 188, 192, 195, 202, 202-10, 202-11, 202-12. Darmahatta Street 2(5), 5, 7-1, 19, 25, 28. Jorabagan Street Karforma Lane ... 15. Kalakar Lane Mandal Street ... 2(3). ... 18-4, 43. ... 18-4, 43 Moyrahatta Street 5-1(6), 14, 14-2, 40. ... 2(2), 3(2), 3-1(5), 3-2(5), 5, 6. Nimtolla Ghat Street Moydaputty Lane 4.. 9-1(2). Raghunandan Lane ... 1, 2, 3(2). ... 1(2), 8, 10, 14-3-1. Ramlal Sett Bond ... Sovaram Basak Street



Name of Street.

Saama Bai Lane Ganguli Lane Pathuriaghata Street Strand Road

Street or holding number, with the number of warehouses shown in brackets when more than one.

... 2, 6, 8. ... 3-1. ... 3, 80-1.

62(5), 62-1, 67-16-P34, 67-16-P29, 67-18-P28(3), 67-19-P29, 67-19-P30, 67-19-P31, 67-20-P32, 67-21-P32, 67-21-P33(3), 67-P31, 67-P35, 67-23-P36 and 37, 67-24-P38, 67-P40 and 42, 67-P54, 67-P39, 67-P56, 67-39, 48, 67-40P and 56, 165P.

Ward No. 6.

Beadon Street Baranoshi Ghose Street Chitpore Road, Upper Machuabazar Street Mitra Lane Srinath Roy Laue Pitambar Sen Lane

... 16-2A. ... 14. ... 7, 56. ... 159(3), 166-B, 135. ... 19. ... 7, 8. ... 6.

Ward No. 7.

Armenian Street Bonfield Lane Cross Street Canning Street

Clive Street

Clive Ghat Street David Joseph Lane Jackson Lane Old Court House Corner Old Court House Lane Cotton Street

Radhabazar Street Lyons Range Pollock Street Radhabazar Lane Ramsebak Mullick Lane Strand Road Sukca Lane

... 13, 14. ... 94 (6).

... 48, 55, 58, 56 (3), 60 (5), 62, 63, .65 (2), 66 (2), 69-1, 95 (2). ... 29, 40 (3), 41 B, 42 (2), 42-1-1 (4), 42-1 (2), 42-3 (7), 46, 62, 70-2, 70-4, 70-7, 71-2, 72-1 (3), 78 (2), 73-8, 79, 82.

... 4, ... 6 (2), 16 (3), 16-1, 18. ... 6, 12, 18, 20. ... 8 (3). ... 4 (2), 5 (2). ... 67, 68 (2), 69, 70, 71 (3), 72 (3), 73 (3), 75 (3), 76, 77 (3).

... 1-1, 14, 24 (2), 28. ... 11-1. 27. ... 42 (2), 7-P-66, P. 165 (2). ... 4, 5, 11, 11-1, 13, 16 (2), 19 (2), 20.

Ward No. B.

Bowbazar Street

Blackburn Lane Phear Lane Chitpore Road, Lower Zakaria Street Giri Babu Lane Tirretta Bazar Street Gopal Chandra Lane Sovaram Basak Lane Chatawalla Lane Kalutolla Street Eden Hospital Road Machuabazar Street Madan Mohan Sen Lane Sagar Dutt Lane Central Avenue

225, 236 (2). 242, 245, 263, 269, 296, 307, 309.

33.

... 33 (3). ... 7A, 11.

1 77 ... 41.

... 41.
... 30.
... 8, 19.
... 3-2-2, 17.
... 1, 27-1 (2), 27-2 (2), 27-3 (3).
... 26, 35, 37.
... 11-3, 34-1, 38, 65-1, 89.
... 14.
... 12.
... 25.
... 4-B, 7-A(21).
... 26, 26-1.

SUPPLEMENT TO THE CALCUTTA GAZETTE, MA

Atreet or holding number, while warehouses shown in bit when more than of

Ward No. 9.

... 4, 110-1, 128(2), 133-H-1, 16(2), 13"-H-1, Amherst Street 136, 149, 11, 151. Brajanath Dutt Lane ... 18. 1, 2, 3, 4, 8, 9, 10, 5-H-1, 41, 55, 168. ... 133, 137. 18. College Street Baitakhana Road Baliaghata Road Canal West Road Bowbszar Street ... 167(12), 167-H-3, 171-H-1, 198, 162-1, 172. Joynarain Chandra Lane ... 19-4 and 19-5, 40, 17-4, 17-5, 17-6.

Nur Mahammad Sarkar Lane ... 5A, 7.

Machuabazar Street Oircular Road Upper Machushazar Street Mirzapore Tank Lane Nilmoni Ganguli Lane 2-1. 5. 1(2). Netai Babu Lane ---27, 27-1, 27-5, 27-6, 28(2), 28-1, 29-2, 29-H-2, 31-1, 63-1(4), 63-2, 64-1, 62. Mirzapore Street 16. Patwarbagan Lane ... 20. Patuatola Lane

... 49. Prem Chand Boral Street 1, 2 Ramkanta Mistry Lane 0.14 34-1(2), 37, 38.

Scott Lane

Ward No. 10.

... 77, 77-1-2, 77-1-3, 71, 71-1, 73, 76, 47, . Bentinck Street 56-4, 61. 3 67-1. Bowbazar Street ... 2. Bentinck Lane ... 8-1. 167(5). Bow Street Dharamtolla Street 6. Temple Street . . . Kenderdine Lane 15. 12. Guriamah Lane 13. Grant Lane 3. . . . Jebb Lane 4B, 22. Khairu Lane y 4.0 ... 60. Metcalfe Street 3, 3-1. New Bowbazar Street 5, .. 34. 5, 14, 15. Prinsep Street Sooterkins Lane ... 11, 12-1, 56, 17, 4, 22-1. Weston Street

Ward No. 15.

... 121, 125, 127, 128-1(3), 132, 137-to 144. Bowbazar Street ... 3, 20. St. James Lane ... 18. St. James Square ... 124. 132. ... 5-2, 11A, 34(2). ... 67, 106. Circular Road, Lower Nebutala Lane Serpentine Lane

Ward No. 19.

... 7, 15, 39. Bentinck Street ... 6. Cooper Lane ... 6. ... 1. 8-1, 9. ... 4. 7, 8. ... 5, 25. ... 1-1. Church Lane Lalbazar Street Mission Row Mangoe Lane Vansitart Row ... ,7-1. Wellesley Place



Street or holding number, with the number of warehouses shown in brackets when more than one.

Ward No. 18.

Corporation Place Sib Chandra Lane Corporation Street Dharamtolla Street Free School Street Lindsay Street Mati Sil Street Wellesley Street Ripon Street Collin Street Chowringhee Place

... 4, 10(2), 12, 13, 15. Wood depot. ... Wood depôt. ... 122, 122-1, 129, 131, 140, ... 32. ... 15, 23, 59 (5), 72 (2), 19-3. ... 12, 12-A, 7. ... 1-2, 2.

2-H-1, 10-1A.

... 2-H-... 25. 4.

Ward No. 14.

Circular Road, Lower ... 76, 88, 93.
Corporation Street ... 49-64 (2), 76, 106.
Dharamtolla Street ... 88, 88-1.
Dr. Durga Ch. Banerji Street ... 22, 23, 52, 61, 49.
Gardner Lane ... 13.
Nawab Abdul Latif Lane ... 1, 7, 8.
Neogipuker Lane ... 30-A.
Ripon Square ... 179. ... 1(2). Ripon Square Ripon Street ... 99. Taltola Bazar Street 1 (2) ... Wellesley Street ... 80, 83. Neogipuker Bye-Lane ... 13.

Ward No. 15.

Circular Road, Lower

... 37.

Ward No. 18.

St. George's Gate Road

... 1.

Ward No. 19,

... 1.

Ananda Gopal Palit Road Chatu Babu Lane Beliaghata Road

... 17, 18, 41, 44, 65-1, 70. ... 2 (3). ... 4-1 (2), 4-2, 4-3, 4-4, 4-5, 4-9, 4-19, 4-31, 4-6, 4-7, 4-8, 4-20, 4-12, 4-15, 4-21, 4-23, 4-24, 4-22, 4-25 (2), 4-26, 4-30,

4-27, 4-28, 4-29, 10-1.

Munshi Razar Road Canal Road, South

... 3. ... 1(8), 1-H-1-4, 2, 2-H-1, 3-H-1(2), 4, 5(3), 6(3), 7, 7-H-1, 8, 9, 10-H-1, 10-H-11, 12-1, 14, 15, 16(4), 17, 18, 19, 20(2), 21, 32(4), 31.

Kulia Tangra, lst Lane Kulia Tangra, 2nd Lane Harimohan Roy Lane Sambhu Babu Lane South Sealdah Road Circular Road, Lower Tangra Road Cheengrihatta Road South Road Entally Middle Road, Entally Kamardanga Road, South

... 2, ... 2, 2, 50, 54. ... 1-1, 2-1, 10, 12. 154(2), 154-1, 156(2), 156-1. 444 ... 14. 1.. 48-2. ... 5, 9-2, 67-1, 63-1, 18, 90, ... 9, 25-1, 29, 30, 37, 43-2, 89.

SUPPLEMENT TO THE CALCUTTA GAZETT

Street or holding number, wi warehouses shown is when more than

Ward No. 30.

Jannagore Road Tantibagan Road Karaya Bazar Road 2, 2, 41. ... 10-1 and 11.

Ward No. 21.

Dhakuria Road Guriahat Road Jhowtolla Road Monoharpuker Road Nepal Bhattacharji Street Russa Road South Tollygunge Circular Road Tollygunge Road ... 5. ... 48-1, 48-9. ... 49. ... 11, 107, 126.

... 27-1. ... 27-1. ... 133, 139-2-2(2). ... 14, 15. ... 21-6, 69, 72(2), 74, 75, 75-1, 76(3), 112-1, 114-1, 114-3, 115-2.

... 4-H-1, 30, 30-1, 50-1, 53, 56, 60. 44, 44-1.

Ward No. 29.

... 1

Chaulputti Road Chakrabere Road Halderpara Road Giris Mukherji Road Harish Mukherji Road Hazra Road

... 37-1. ... :6, 158. ... 1-1, 127. ... 18, 27-2, 28, 29-1,-29-H-1, 33(2), 30-1, 31-2, 38, 40-1, 44-3, 30, 36, 44, 45, 46, Harish Chatterji Road 44-1. ... 7-3. ... 61. Katuakhoti Road

Kansaripara Road Kalidas Patitundi Lane Mahim Haldar Street Kalighat Road

... 1, 3, 3-1. ... 7-1, 7-2, 32-1-1. ... 20(2), 23, 31-3, 31-2, 35, 48-4, 138-8, 141-1. 4, 6, 15, 16, 26, 28, 36-H-1, 36-2.

Madan Pal Lane ... 4, 6, ... Nepal Bhattacharji Street ... 10-1. Puddopuker Lane Russa Road, South Sankaripara Road

140 ... 141, 143, 122-1. ... 12.

Ward No. 22.

Alipore Road Bridge Road Ohetla Road Chetla Hat Road Gopalnagar Road Judge's Court Road Jainuddiu Mistry Lane Myerpore Road

35-A, 19, 17-1, 66, 7, 3-H, 3-37, 1, 8, 17, 19, 20, 24, 25, 7-1. .8

... 5, 20-14. ... 7-1. 40. ... 27.

... 4-1, 12-1, 73-4(2), 74.

Ward No. 24.

... 1(2), 1-1, 3, 4. Bhukoilash Road Koylasarak Road 12. Kantapuker Road (off Dock East Boundary.) Shed. ... 27. Dent Mission Lane ... 11. Pipe Road

O THE CALCUTTA GAZETTE, MAR. 15. 1922.

me of Street

"Street or holding number, with the number of warehouses shown in brackets when more than one.

Ward No. 26.

Berapuker Road

Circular Garden Reach Road ...

Kutri Road

... 10-1, 12(2).
... 18(2), 100, 116-H, 120-1.
... 33, 35-1.
... 89(4), 89-5(3), 90, 90-1(2), 89, 90-1-3(2), 90-1(3).
... 8-1(6), 8-2(2). Diamond Harbour Road

Gangadhar Banerji Lane Tarafdar Tank 2nd Lane Garden Reach Road

... 8(2). ... 10. 98(2), 86, 98(4).

Ramkamal Mukherji Street ... 27-1, 28-1.

Mansatolla Lane ... 27. ... 27. Metapuker Lane Nalapara Road 4. 37-1. ... Watgunge Street Munshigunge Road 114

3, 3-2, 6, 6-8, 7, 9-1, 9-15, 9-17, 11-2, 12-1, 12-H-5, 28, 29, 32, 35(2), 36, 37, 38(2), 20, ... 1, 1-4, 2-1, 32, 41, 43, 32-14.

11, 12.

6-1, 10.

Puddapuker Street Puddapuker Square Puddapuker West Lane

REPORT OF THE COMMITTEE OF ENGINEERS

GOVERNMENT OF BENGAL.

MARINE DEPARTMENT.

CALCUTTA, THE 11TH MARCH 1922.

RESOLUTION-No. 813 Marine.

The Report of the Committee of Engineers appointed in Bengal Government Resolution No. 3541 Marine, dated 4th November 1921, to advise Government regarding the type of the proposed new bridge between Calcutta and Howrah, is published below for general information:—

The Report complete with the plates, appendices and diagrams is available for sale at the Bengal Secretariat Book Depôt.

2. Before finally deciding on the type of bridge to be adopted, the Governor in Council will consult the leading associations and others, and will be glad to have the views of any persons interested.

3. The Governor in Council desires to take this opportunity of thanking the President and Members of the Committee for their valuable and practical report.

By order of the Governor in Council,

H. E. SPRY,

Secretary to the Government of Bengal (offg.).

RIDGE BETWEEN CALCUTTA AND HOWRAH. REPORT OF THE COMMITTEE OF ENGINEERS.

TERMS OF REFERENCE.

No. 3541 Marine, dated Calcutta, the 4th November 1921. **
RESOLUTION—By the Government of Bengal, Marine Department.

In October 1920, public bodies and representative associations in Calcutta were consulted on the various proposals that have been made for a new bridge over the Hooghly at Howrah with special reference to the type of bridge which should be adopted. In the discussions which ensued a new point of great importance was raised as to the necessity of providing an opening span permitting the passage of ocean-going steamers. It was suggested that in modern conditions, it is unnecessary for traffic purposes for ocean-going steamers to proceed above the bridge and that the requirements of the port would be met by a bridge with a fixed headway permitting the passage of inland craft.

- 2. As this point appeared to have a material bearing on several of the problems arising out of the question of the type of bridge to be adopted, the Governor in Council decided that it was necessary to undertake its investigation. He has ascertained that there is no objection on the part of the naval authorities to the river above the bridge being closed to ocean-going steamers, while a representative committee, which was appointed to examine the manner in which local interests would be affected by the proposal, has reported that as a matter of fact no ocean-going steamers now proceed above the bridge except for purposes of repair, and that the only interests which would be adversely affected by the closing of the upper reaches of the Hooghly to ocean-going steamers are those of the owners and lessees of certain docks above the present bridge which are now used for repair purposes. Arrangements could, however, be made for the repair of such vessels to be carried out at docks below the bridge, and the committee have come to the conclusion that it is not necessary for the work of the port that ocean-going steamers should continue to proceed above the bridge and that it would suffice to have a bridge with a fixed headway permitting the passage of inland craft.
- S. The Governor in Council has no hesitation in accepting the view of the committee that an opening span is not essential for the work of the port, and he is of opinion that the question of the new Howrah bridge has now reached a stage at which it should be possible for Government to come to a final decision as to the type of bridge to be adopted and proceed with its construction as soon as the necessary financial and other arrangements can be made. The problems involved are, however, so complex, and the advice which His Excellency in Council has received is so conflicting, that he thinks it desirable that the matter should be reviewed by a competent body before a final decision is taken, which will affect the vital interest of Calcutta for many years to come. He has accordingly decided to refer the whole question to an expert committee, and he trusts that with their advice and assistance he will be able to arrive at a conclusion which will commend itself to the judgment of the numerous and important interests concerned.
- 4. The complete discussions that have taken place on the subject will be laid before the committee, and it is only necessary here to summarise

SUPPLEMENT TO THE CALCUTTA GAZETTE, MAR

very briefly the main considerations involved. The three types bridge which have been considered are—

- (1) the single span arch,
- (2) the pier or girder type,
- (3) the floating type.

The advantages of the single span arch type are undoubted. Apart from sesthetic considerations, it would avoid the obstruction to navigation which is inevitably caused by a floating bridge and the risks of silting and changes in the course of the river which the sinking of piers would involve. On the other hand, the cost of a single span arch bridge would be high, and competent advisers take a very serious view of the risks which such structure would run in the conditions prevalent on the banks of the Hooghly from abutment pressure, wind pressure and earthquakes. These risks would doubtless be lessened by the elimination of an opening span, but it is by no means certain that they would be reduced to an extent which would make it safe to disregard them. In the case of a pier or girder bridge, similar risks, except possibly earthquake risks, could probably be disregarded, but the Governor in Council is advised that before a bridge of this kind could be constructed, it would be necessary to sink trial piers in order to ascertain their probable effect on the river bed. These experiments would necessitate a delay of at least two or three years in starting the construc-tion of the bridge, and even at the end of that period, the results might not be conclusive. The disadvantages of the floating type of bridge are well It permanently obstructs the river traffic and the necessity for periodical openings causes considerable inconvenience to road traffic also. This inconvenience and obstruction would not be greatly lessened, even if it were decided to close the river above the bridge to ocean-going steamers, since a floating bridge could not provide a permanent passage for inland craft without excessively steep approach gradients, and an opening span would therefore still be required. On the other hand, a bridge of the floating type would be more free from risks and could be constructed more cheaply and easily than any other type. If it is decided to retain a bridge of the floating type, it will be a matter for consideration whether there should be a single bridge with a wider roadway than that of the present bridge, or whether, as has been proposed by Sir Bradford Leslie who designed the present bridge, it would be preferable to replace it by a twin bridge.

These being the main considerations involved, the Governor in Council would like the advice of the committee in the first place on the question whether the risks attendant upon the single span arch type of bridge, even after the elimination of the opening span, are so serious as to make its adoption unduly hazardous. If it is decided that Government would not be justified in running the risks involved in the single span arch type, the committee should consider what other type they can recommend, having regard to the considerations stated above and to any other considerations which may present themselves. If, on the other hand, the committee consider that the difficulties connected with the single span arch type are not insuperable, the question will still remain whether the advantages of this type are sufficient to outweigh the additional expense involved. It has been argued that a prosperous and wealthy city like Calcutta can afford the best and most efficient bridge that modern engineering science can produce. On the other hand, the cost of the new bridge will fall directly or indirectly on the people who use it, and it has been contended that the present generation may rest satisfied with a type of bridge which, in spite of admitted drawbacks, served its purpose well until increasing traffic made it inadequate for the needs of the city, and which is free from the risks which would necessarily be involved, at least to some extent, in the adoption of any new design. Though the committee has been so constituted as to provide Government with an authoritative professional opinion on the various engineering problems involved, its members are all interested from different points

EMENT TO THE CALOUTTA GAZETTE, MAR. 15, 1922.

of view in the prosperity and convenience of the public of Calcutta and its neighbourhood, and the Governor in Council, invites a full expression of their opinion from the widest point of view.

6. The committee will be constituted as follows:-

Members.

Sir Rajendra Nath Mookerjee, K.C.J.R., President.

Sir George Godfrey, Kt., Agent, Bengal-Nagpur Railway.

Mr. C. D. M. Hindley, Chairman, Port Commissioners, Calcutta.

Mr. J. McGlashan, Chief Engineer, Port Commissioners, Calcutta...

Mr. James R. Coats, Chief Engineer, Calcutta Corporation.

Mr. C. Addams Williams, C.I.E., Secretary to the Government of Bengal, Irrigation Department.

Member and Secretary.

Mr. G. G. Dey, Secretary to the Government of Bengal, Public Works Department.

The committee will sit in Calcutta, on such dates as may be arranged by the President, and it is hoped that they will be able to submit their report by the middle of December. Any persons interested, who desire to place their views before the committee or to give evidence, should communicate with the Secretary not later than the 15th November 1921.

NEW BRIDGE BETWEEN CALCUTTA AND HOWRAH.

REPORT OF THE COMMITTEE OF ENGINEERS.

i.- latroduction.

1. In Bengal Government Resolution No. 20 T.—Marine of the 2nd June 1921, a representative Committee was appointed to investigate and report on the necessity of an opening span in the proposed Howrah Bridge from the point of view of the working of the Port of Calcutta. The Committee submitted their report in July 1921, and expressed the opinion that it was not necessary for the work of the Port that ocean-going steamers should continue to proceed above the bridge and that it would suffice to have a bridge with a fixed headway permitting the passage of inland craft.

2. The Governor in Council accepted the view of the Committee and as previous expert advice received by Government on the type of bridge to be adopted had been based on the assumption that an opening span was required, it was decided to have the whole question re-examined by a Committee of Engineers appointed to advise Government as to the most suitable

type of bridge to be constructed.

11. Appointment of Committee of Engineers and terms of reference.

3. In Bengal Government Resolution No. 3541 Marine of the 4th November 1921, (pages 1 to 3), the present Committee was appointed, the terms of reference being as follows:—

(a) Whether the risks attendant upon the single span arch-type of bridge, even after the elimination of the opening span, are so serious, as to make its adoption unduly hazardous.

(b) If it is decided that Government would not be justified in running the risks involved in the single span arch-type, the Committee should consider what other type they can recommend, having regard to the considerations set out in the Resolution, and to any other considerations which may present themselves.

(c) If, on the other hand, the Committee consider that the difficulties connected with the single span arch-type are not insuperable, the question will still remain whether the advantages of this type are sufficient to outweigh the addi-

tional expense involved.

The Committee were also invited to give a full expression of opinion on the most suitable type of bridge from the widest point of view.

111. Proceedings.

4. The Committee assembled at its first meeting on the 15th November, and held twelve full meetings including a local inspection of the present bridge and sites in its vicinity, together with five Sub-Committee meetings. The Proceedings of these meetings are given in Appendix 1. Owing to the departure on leave of Mr. G. G. Dey, the Secretary of the Committee, Mr. C. Addams Williams was appointed in his place as Secretary from the 10th December 1921.

MENT TO THE CALCUTTA GAZETTE, MAR. 15, 1922.

5. Lembers of the public were invited to place before the Committee any information which might be of assistance, and the following gentlemen gave evidence either oral* or written, or both:—

Mr. Bagley, Consulting Engineer, Messrs. Gillanders, Arbuthnot & Co. (Appendix 2).

Mr. Humphryes and Mr. Radice of Messrs. Braithwaite & Co. (Appendix 3).

Mr. Colvin, Agent, East Indian Railway, and Mr. Higman, Traffic Manager, East Indian Railway (Appendix 4).

Mr. Aslett, Chief Engineer, East Indian Railway (Appendix 5).

Mr. Atkins, Chief Engineer, Calcutta Improvement Trust (Appendix 6).

Mr. Sales, Bridge Engineer, State Railways.

Mr. Remfry, Consulting Engineer (Appendix 7).

Mr. Hindley, Chairman of the Calcutta Port Commissioners (Appendix 10).

Mr. McGlashan, Chief Engineer of the Calcutta Port Commissioners (Appendix 11).

6. Papers were also received from Messrs. L. H. Swain, Bridge Engineer, Oudh and Rohilkhand Railway, B. B. Gupta, G. Dubern, H. Rolfe of Messrs. Rolfe & Co., R. M. Ghose, and R. R. Chatterjee and were considered by the Committee. Mr. Bagley's paper' on the Howrah Bridge Problem, read before the Institution of Engineers (India) in February 1921, advocating a twin floating bridge to the design of Sir Bradford Leslie, together with the subsequent discussion of this paper by the members of the Institution, was also considered by the Committee.

7. Mr. Popham, Deputy Harbour Master, gave evidence in regard to the precautions taken in the Port against vessels breaking away from their moorings and the effect of such moorings on the proposed bridge; and a note on this subject was submitted by the Deputy Conservator of the Port (Appendix 8).

8. Mr. Bompas, Chairman, and Mr. Atkins, Chief Engineer, of the Calcutta Improvement Trust, attended a meeting by request, and gave their views (Appendix 1) in regard to the site and approaches to the bridge on the Calcutta side in relation to the operations of the Trust in the vicinity, and also in reference to arrangements for traffic using the bridge, and our recommendations on these matters, based on their opinions, are shown on Plate No. I submitted with this report.

IV.-Headway.

9. The Committee decided that as the necessity for providing an opening span had been eliminated, the first question to be decided was the amount of headway to be allowed under the bridge for river traffic. Conferences were therefore arranged with the representatives of the River Steamer Companies concerned, with Messrs. Addams Williams and McGlashan, in order to determine the headway to be allowed in the case of (a) a fixed bridge, (b) a floating bridge. It was found that practically all the largest inland steamers now in use, or under construction, or likely to be constructed in the future, were 37½ feet or less overall in height, and with a draft of 5 feet would require 32½ feet actual clearance between the under side of the bridge and the water surface, which means that for practical purposes such a steamer could not be safely passed under the bridge unless there were a clearance of 35 feet. An investigation of the rise and fall of the tides throughout the year, demonstrated by diagrams, the more important of which are printed in Appendix 1, showed that a headway of 29 feet above high water of spring tides (22 50 feet above old

[†] Printed in the Proceedings of the Institution of Engineers (India), Vol. I. Saptember 1921.

Kidderpore Dock sill), in the case of a fixed bridge, would provide 35 feet of clearance for no less than 12 hours in the 24 even on the day of the highest spring tide of the year. During the remainder of the year, for no less than 92 per cent. of the time, all such vessels could pass through, and at low water the clearance would be as much as 49 feet. Even if an extra 3 feet clearance were required to allow for contingencies of draft and weather and other navigation restrictions, this clearance would still be available for 8½ hours on the day of the worst high water tide of the year. It was therefore decided to adopt 29 feet as the necessary headway above high water spring tides.

In the case of a floating bridge, it is obvious that the headway would be a fixed one, independent of the state of the tide, except for slight differences due to variable loading of the bridge, rough weather and the effect of uneven loading on the draft of vessels. It was decided that with a float-

ing bridge the headway allowed should not be less than 35 feet.

10. The representatives of the Steamer Companies accepted these figures (Appendix 9) and we have no hesitation in recommending them for adoption in the final design. The question of gradient of the roadway, which we discuss later in the report, has an important bearing on the matter of headway, and in securing the agreement of the Steamer Companies to the figures now mentioned, we are satisfied that their operations, either in the present or the future, will not be unduly hampered, while the headway adopted permits of satisfactory gradients being obtained for the roadway on a fixed bridge. In accordance with this finding, our subsequent recommendations are based on these figures.

V.-Types of Bridges.

proposals which have been made in the past and have carefully considered their relative merits. As instructed in our terms of reference, we have considered first the proposal for a single span arch bridge, a sketch design for which was submitted to Government by Mr. Basil Mott. The primary objections to Mr. Mott's design are firstly the difficulty, if not the impracticability, and secondly the prohibitive expense, of securing the abutments on the deltaic soil of the Hooghly against lateral movement due to the horizontal thrust of the arch. Any such movement would cause a deformation of the arch with sagging of the suspended platform and might lead to the collapse of the whole structure. With the knowledge which we possess of the conditions of the soil in Calcutta, we should not be justified in recommending the adoption of a structure which would be liable to total destruction through movement in the abutments. It is true that eliminating the opening span simplifies matters and makes it possible to take up this horizontal thrust by means of a bottom tension chord, but this would not only greatly increase the cost, but on account of the gradient on the chord would also set up secondary stresses of great magnitude in the other members, between the top and bottom booms of the arch. Such a modification would in fact produce a bow-string girder of excessive height and uneconomical proportions. This type has never been adopted for a span larger than 720 feet (over the Ohio River at Metropelis, Illinois).

12. We are, moreover, much influenced by the difficulties of erection of a bridge such as Mr. Mott has recommended or even of a modification of the design which would follow on the elimination of the opening span. Having taken into consideration the most modern methods of erecting such a structure which are known to us, we believe that it would be necessary to provide erection towers on each bank about 300 feet high. The whole of the material used in these towers, as well as the expensive erection plant, would be of little or no value when dismantled, and this would add considerably to the cost of the scheme. Temporary anchorages would have to be provided, which would extend to a considerable distance inland and

would involve great interference with expensive property in the neighbour-hood. We realise that interference of this kind in Calcutta, except in the case of land owned by Government or a public authority, is not always such as can be compensated for by money payments, and we anticipate most serious delay, and possible opposition, to the scheme if such operations as would be involved in the erection of an arch structure were attempted anywhere near the present site of the bridge.

We have carefully considered the probable effects of storms and earth-quakes. We believe that this type of bridge would be more liable to damage from such causes than any other type of fixed bridge. We would emphasize the fact that engineering experience in regard to this type of structure is limited to observations on no span as large as 1,000 feet, whereas the span of the bridge over the Hooghly cannot be made less than 1,400 feet. The largest single arch span as yet built is that of the "Hell Gate" Bridge over East River, New York, the span of which is 977 feet and which is founded on rock. We do not consider that it is within our duty to recommend an experiment of this nature, even though it should prove that the foundations are more suitable than we believe them to be.

We therefore answer the first question in our terms of reference in the affirmative.

We estimate that the weight of such a structure, including live loads, would be approximately 20,000 tons on each abutment and that the cost would be in the neighbourhood of £3,000,000, including abutments and approaches, but excluding any compensation for land or property.

This estimate, together with the other estimates given in this report for other types of bridges, is also exclusive of any compensation which may have to be paid for interference with docking interests above the present bridge, due to the omission of an opening span, a factor which is common to all of the types considered.

13. With the rejection of a single arch span we have the choice before

us of the following types of bridge:-

Suspension bridge.
Pier and girder bridge.
Floating bridge.
Cantilever bridge.

14. Suspension Bridge.—Most of the disadvantages of the single span arch bridge which have led us to reject that type are inherent in the suspension bridge type. The construction of the anchorages would interfere with valuable property, while the cables would form a permanent obstruction to roadways and buildings, particularly on the Calcutta side of the river. An attempt to bring the anchorages so near to the river bank as to avoid this interference and obstruction would necessitate building the abutments in the river itself, thereby not only narrowing the waterway but introducing into the stream the same adverse influences which have led us, as explained later in the report, to the rejection of any proposal involving the construction of piers in the river bed. The lateral strengthening of the structure which would be necessary to meet wind pressure would mean considerable expenditure, while the danger from abnormal storms or earthquakes would be nearly as great as in the case of an arch bridge. We are also of opinion that the cost of maintenance in such a bridge would be considerably higher than in other types of fixed bridge. Its massive masonry anchorages would also be subject to forces the horizontal component of which we consider would be difficult to arrange for and which would introduce a degree of risk which we should not be justified in recommending.

15. The cost may be roughly estimated at £2,500,000. We are not impressed with any of the advantages claimed for this type of bridge, and its disadvantages lead us to reject it as unsuitable to the particular local conditions.

16. Pier and Girder Bridge.—We have given this type of bridge our very careful consideration. It has been strongly recommended to us by

expert opinion, and its comparatively low cost and its other advantages are considerations which would ordinarily outweigh any but the most serious

objections from other points of view.

17. The question whether piers can be safely constructed in the River Hooghly at or near the present site has formed a controversial issue between experts for many years past. The Commissioners for the Port of Calcutta, who as Conservators of the River Hooghly are responsible for the maintenance of the waterway through the Port, have laid it down that no piers should be permitted at this place. After considering the report of the Committee of Engineers of 1910, the Port Commissioners imposed this prohibition as a fundamental condition in the call for designs and tenders in 1911, and have recently reaffirmed it in their letter to Government when dealing with a reference on the general question of the bridge in 1920. We have included in the appendix to this report, papers showing the importance which the Port Commissioners attach to this condition (Appendix 10).

Under their statutory powers the Port Commissioners may have the right to enforce this prohibition, but we considered that we should not be justified in basing our recommendations on it without examining the evidence and the expert opinions on which the principle has been arrived at. Mr. McGlashan's note on this subject (Appendix 11) shows clearly what were the reasons for this prohibition, and we are impressed with the fact that all recorded experience and available expert opinion on the River Hooghly point to considerable danger as likely to arise through the intro-

duction of piers into the river bed.

We are not satisfied that further investigation and prolonged practical work on the river would not lead to a demonstration that such danger could not be kept by engineering means within negligible limits, but we are satisfied that the present knowledge is not sufficient to justify the Conservators in taking the risk of allowing the construction of piers, and that the accumulation of further experimental data which are required for a settlement of this difficult question would involve operations which might be in themselves a source of danger to existing Port facilities and might cause several years of delay in constructing the bridge, a delay which cannot be contemplated with equanimity either by the Government or the public.

We have also given special weight to the vital necessity, brought clearly to notice by the Nadia Rivers Committee, of preserving unimpaired by all possible means the tidal flow through the Port on which for eight months of the year the existence of the waterway depends. We consider that this adds force to the expert opinion on which the Port Commissioners' decision upon

this question has been based.

It is in contemplation to permit the use of piers in the construction of the proposed new railway bridge over the Hooghly at Bally, where the width of the river renders any other type of bridge impracticable, and in this connection we would draw attention to the following opinion of Sir Francis Spring given to the Port Commissioners in 1913 with reference to that

bridge:

"I am of opinion that piers of more or less 20 feet thick, founded on wells of a size more or less 60 feet by 37 feet and sunk to a depth of 40 or 50 feet below the bottom level of the deepest hole to be found anywhere in the river within three or four miles of the site, will not be likely to cause currents or swirls detrimental to the regime of the river of the river. detrimental to the régime of the river, or likely to affect any interest situated beyond a mile downstream from the chosen site of the bridge."

There would therefore appear to be justification for permitting piers in the river at a distance from the specially important Calcutta area, while

forbidding their use in Calcutta itself.

21. We have already mentioned the comparatively low cost of such a structure and we believe that it could be built for £1,600,000, but for cogent reasons which we have fully explained we are unable to recommend the adoption of this type.

22. Floating Bridge.—We have carefully considered the design submitted to the Government of Bengal by Sir Bridford, Leslie and have had the advantage of Mr. Bagley's exposition of the proposal. We have also had before us the discussion which took place at the Institution of Engineers (India) on the paper read before that body on this proposal in February 1921. The design is based on the supposition that an opening span should be provided, and the principle recommended is that of twin bridges supported on clusters of pontoons with an opening span of 210 feet in each bridge. We consider that to accommodate the traffic which it is anticipated will pass over the bridge in the future, the adoption of the floating type necessitates the twin bridge construction, which introduces certain serious difficulties in connection with the approaches. Diagrams to show the movement of road traffic with such a bridge indicate that there would be a good deal of inconvenience and confusion, with consequent congestion, caused by the numerous crossing streams of traffic at the junctions of the approaches with the main roads on either side of the river (Appendix 2).

23. The design submitted by Sir Bradford Leslie would require modification to suit the elimination of the opening span, and we can only make general assumptions as to the design which he would recommend if he were asked to re-design the bridge to suit the new conditions. We are, however, struck very forcibly by certain important disadvantages inherent in this type of bridge.

24. As shown in paragraph 9, a headway of 35 feet must be allowed at all states of the tide, and this involves at periods of high water much steeper gradients on the road than with a fixed bridge, although we admit that on the average the gradients would be more favourable with the floating bridge.

25. The change in gradient with the rise and fail of the tide would introduce a serious and most adverse complication in regard to the running of trams over the bridge. We have examined diagrams which have been prepared to show the effect on running trams of the alterations in the vertical angle of tram lines at the points where the gradients would be constantly changing, and find that it would be difficult to design tram cars or rail joints which would ensure running over these flexure points with either comfort or safety. This difficulty is not peculiar to Sir Bradford Leslie's design, but would occur in any bridge of a floating type designed to suit the conditions regarding headway which are essential.

26. One of the greatest disadvantages of a floating type of bridge, whether twin or single, is that with this type the permissible loading would be very far short of what we consider it necessary to provide for. We have it in evidence from Mr. Bagley that no floating bridge could be designed with a floor of sufficient strength for the loading which, in our opinion, is essential if the road traffic between Calcutta and Howrah is not to be permanently hampered by restrictions such as would not be acceptable in any modern city.

While designing a work the whole object of which is the improvement of means of road transport in this city we are satisfied that it would be a retrowhich would affect unfavourably the future development of mechanical road traction.

27. In considering this type of bridge we have taken evidence on the probable effect of a collision between a large ocean-going steamer and the bridge. Our attention has been drawn to this possibility by expert witnesses who were unfavourable to any fixed structure being constructed over the Hooghly at this point. We understand that the method of controlling the mooring and movement of ships in the Port makes it practically impossible for a large ship to become unmanageable and collide with the bridge. At the same time we cannot exclude such an eventuality, and we find both from our own judgment and from that of several expert witnesses that in such an event the effect on a fixed bridge with the long pontoons in clusters, which would be necessary, there is grave

risk of several of them being sunk and of the whole bridge being wrecked, while with a fixed bridge the damage done to the ship would be much more serious than to the structure of the bridge, which in any type would be of great stiffness where it would be liable to be struck by the superstructure of

a ship:

28. Another disadvantage of a floating bridge is the difficulty of inland vessels negotiating the fairway without colliding with the pontoons. With the present bridge these inland vessels only use the opening at high water slack, when there is little or no current in the river, but with a non-opening span type of floating bridge these vessels would pass under it at all states of the tide, and in the case of a large steamer towing two large flats abreast with a total beam of 150 feet, the most careful navigation would be required in the strong diagonal currents, to avoid fouling the clusters of pontoons.

29. Further, the obstruction caused by the pontoous to the free flow of water, while not producing an effect comparable to that of the piers of a fixed bridge, must have some effect on the tidal flow in the river, and it is most desirable, as we have already pointed out, that such interference

should not be permitted if it is possible to avoid it.

30. In regard to recurring cost, we are of opinion that the annual cost of maintenance of a bridge of the floating type would be much greater than in the case of maintenance bridge, where the whole of the steel work would be above water level and easily accessible.

31. The estimate for this type is placed at £1,650,000 for twin bridges, to which must be added the capitalized value of the heavier recurring

maintenance charges, the amount of which we have not estimated.*

32. Our considered opinion on a floating bridge is that it can only be regarded as second best for local conditions, and that it would be merely a temporary solution of the problem, that it would be insuitable in many important respects, and finally, that it would be altogether unworthy of a

great City.

33. Cantilever Bridge.—The cantilever type of bridge is regarded by eminent Bridge Engineers as the most economical of large span bridges in first cost. It was adopted for a span of 1,800 feet at Quebec over the St. Lawrence River and for a span of 1,700 feet at the Forth Bridge and in other cases where the primary consideration was the necessity for a large clear span over water. It is capable of being constructed with comparative ease and without elaborate staging, and the gradual imposition of the load on the foundations during the process of construction gives it a great advantage over an arch bridge, where a sudden change in the distribution of pressure takes place when the erection staging is removed. A cantilever bridge has also great rigidity against live loads and wind stresses and provides ease of inspection and maintenance. It is one of the types of fixed bridges least likely to be damaged by earthquakes.

34. We find that it is possible to design a cantilever bridge, the anchor arms of which would not interfere with traffic in the adjoining streets, either during the period of construction or permanently. This is a very important consideration and one which has influenced us in deciding

to recommend the adoption of this type.

35. It is true that with this type the weight on the abutments will be high, but the pressure will be vertical and there is no horizontal component to be arranged for, as in the case of the arch or suspension bridge. An approximate estimate of the weight on each abutment with this type of bridge is 30,000 tons, and with the hitherto accepted figure for permissible foundation pressure in Calcutta this would mean providing a very large foundation area.

During the progress of our work, however, a very valuable experiment has been conducted by the Chief Engineer of the Port Commissioners on

Since this report was in print we have received information that a well known Bridge Company are prepared to construct a twin floating bridge to Sir Bradford Leelie's design for a sum of £ 1,600,000 within a period of 24 years. This information confirms our estimate but in no way alters the opinions we have expressed in this report.

the nature of the soil at the site which we recommend for the bridge, the results of which have been placed at our disposal by the Port Commissioners. Porings have been made which have proved the existence of a stratum of hard grey clay at a depth of 97 feet below the surface (+ 24.00) on the Calcutta side and 79 feet on the Howrah side. The borings were taken down 55 feet into this hard clay on both sides of the river. The experiment which is still in progress, has shown that this clay will stand a load of 51 tons per square foot with a total sinkage of only 1'e the of an inch after 26 days' trial. It is therefore clear that there will be no difficulty whatever in providing for the total pressure on the abutments of the cantilever bridge with a foundation area of reasonable size and without extensive interference with neighbouring buildings and property.

36. From figures given to us by expert bridge builders we estimate the cost of this type of bridge at £2,000,000 and are of opinion that it could be constructed in 3½ years from the date of commencement.

37. After carefully considering the whole problem in all its bearings we unanimously recommend the adoption of the cantilever type, which we believe is eminently suitable to the particular conditions of this river crossing and will give better value for the money expended in convenience to road and river traffic, in length of life and in cheapness of upkeep than any other type which could be adopted.

We have shown in Plate No. I, prepared by Mr. McGlashan, an outline design for a cantilever bridge, and while rigid adherence to this particular design is not absolutely necessary, we consider that the leading dimensions should not be departed from to any great extent. A perspective

view is shown on Plate No. IV.

VI.-Site and Gradients.

38. The site of the existing bridge is unsuitable for a new fixed bridge owing to difficulties connected with construction. It would be necessary to remove the present bridge temporarily to another site previously prepared, before construction could be commenced, and to divert the roads to suit this new site. Apart from questions of expense, the inconvenience caused by such an operation involving serious interruptions to traffic, both on the river and on the roads, in the case of the latter extending to ten days or more, render it a practical impossibility. It is clear therefore that another site must be selected.

The object to be aimed at is to provide a direct link between the important traffic centre at the junction of Harrison Road and Strand Road on the Calcutta side, with Howrah Station and the system of roads on the Howrah side which are based on the Grand Trunk Road. The present site provides this link in the most direct form, but apart from constructional difficulties we find that it is impossible to arrange the approach roads for this site with reasonable gradients to serve the Strand Road and Harrison Road without considerable interference with valuable property, or to serve Howrah Station without an unnecessarily long detour.

- Any site below the present bridge and in its immediate proximity would present the same difficulties as regards gradients, and would also interfere with important property on the Calcutta side while interfering with Howrah Station and providing a very indirect approach to the Grand Trunk Road on the Howrah side.
- A possible site 250 feet upstream, between Chattu Lall Ghat and Goenka Ghat, on the Calcutta side would involve somewhat similar difficulties as regards gradients on the approaches, while it would be difficult to avoid interference with the former ghat, which we have ascertained is undesirable on religious grounds. After careful inspection of the locality we have decided that the best site is on a centre line, commencing on the Calcutta side 630 feet above the centre line of the present bridge, between the south end of the Port Commissioners' Jagganath Ghat shed and Mullick Ghat, and running to a point on the Howrah side 580 feet above the centre line of the

present bridge. The exact position of the abutment and approach on the Howrah side can be selected without such restrictions as exist on the Calcutta side, as the land on the former side is already the property of a public body, namely, the Port Commissioners, the present lessees, Messrs. Jessop & Co., holding leases which can be terminated by suitable arrangement. In fixing the centre line we have therefore adopted a direction at right angles to the main axis of the river at this point which will provide the shortest crossing compatible with non-interference with the river.

41. Proximity of the foundation construction operations to the Port Commissioners' sheds and Mullick Ghat may cause some risk to parts of those buildings, as experiments have shown that the disturbing effect of such operations may extend to a distance of 100 feet from the outside of the foundations. This risk can, however, be reduced by suitable precautions, and we do not anticipate the necessity for any very extensive reconstruction of those buildings. The small Shradh Ghat adjoining Mullick Ghat would, however, be interfered with seriously and before the foundations of the bridge are commenced it will be necessary to rebuild it elsewhere on a suitable site, to which we have ascertained there is no objection on religious or other grounds.

42. In deciding on our recommendations in regard to the approach roads on the Calcutta side, we have taken the advice of the Calcutta Improvement Trust, while on the Howrah side, in the absence of any definite recommendation from any local authority, we have accepted a lay-out suggested by the Chief Engineer of the East Indian Railway, which provides a suitable access to Howrah Station and also to the Grand Trunk Road, partly through property which is now being developed by that Railway as a residential quarter. The site and the approaches are shown on Plate No. I attached to this report and provide for gradients not steeper than 1 in 40 on the straight portions and 1 in 80 on the curved portions.

43. We have already stated in this report that the adoption of a fixed type of bridge enables the headway over high water (+ 22.50) to be reduced to 29 feet as compared with the headway of 35 feet over the same water level in the case of a floating bridge. This means that the highest level to which all road traffic must be raised is + 56.00 over datum in the case of a fixed bridge compared with + 62.00 in the case of a floating bridge at high water, the level of Strand Road being about + 25.00. In the former case we are enabled to provide for a permanent grading on the bridge of 1 in 59 with 200 feet level in the centre, whereas in the latter case the gradient would have to be 1 in 38.20 at high water, and this gradient would remain constant on either slope of the central span. This comparison is indicated on Plate No. II printed with the report, which also shows the gradients which we recommend for adoption in designing the cantilever bridge.

44. We do not attach much importance to the additional distance of about 200 yards for traffic coming from the south of Calcutta to Howrah and vice versa, while for traffic from or to the north of Calcutta a similar distance will be saved. It is possible that the new position of the bridge will reduce to some extent the room now available for manœuvring inland vessels at the Jagganath Ghat sheds, but we do not consider that this will impair the convenience of this landing place or adversely affect the interests of the Inland Steamer Companies to any extent. The ferry landing stage at present on the site selected on the Calcutta side will require removal to a new position, but this will not involve either great expense or any serious inconvenience to passengers. The Port Commissioners' Railway line along the Strand Bank will require to be regraded and carried in a subway under the bridge approach, but with the experience gained in constructing the subway under the present bridge approach this will not present any engineering difficulty.

45. We may note here that the lay-out of the approaches on the Calcutta side will necessitate the absorption of land at present occupied

by the Mint on the river side of Strand Road. It is essential that no undue delay be incurred in effecting the removal of the Mint, the desirability of which on general grounds we understand has already been accepted. We are informed that negotiations in this direction are now in progress between the Calcutta Improvement Trust and the Government of India.

VII.-Width of Readway and Leading.

- 46. It is necessary to provide for a line of tramway in each direction over the bridge, and the density of traffic moving over the present bridge and its growth in recent years clearly show that at least three lines of vehicular traffic each way should be accommodated, in addition to the tramways.
- 47. In regard to the footpaths, a calculation based on the rate at which passengers from Howrah Station can be given access to the bridge from trains at the rush hours, shows that a footpath 12 feet wide on each side will not be excessive. Allowance has been made both for normal growth of foot traffic and for the fact that the tramways will accommodate many who now go on foot.
- 48. Allowing 18 feet for the two lines of tramway, 58 feet for the six lines of traffic and 24 feet for the two footpaths, we have a total width of 100 feet, and this is the figure we recommend for adoption in designing the bridge, the footpaths being placed outside the main girders as shown in Plate No. III. We consider it of importance thus to separate the footpassenger traffic from the wheeled traffic.
- 49. In considering the question of loading we have had the advantage of the investigations recently made in connection with the design for the bridge over Tolly's Nullah at Kidderpore. We recommend that the following loadings should be provided for on the roadway:—
 - (a) Tramcars having a bogie wheel base of 18 feet and a total load of 25 tons.
 - (b) Motor lorries with 4 tons on front and 12 tons on back axle spaced 12 feet apart.
 - (c) Steam rollers, weight 15 tons with 9 tons on front and 6 tons on back axle, spaced 11 feet apart.

and for a width of 12 feet on the outer sides of the roadway-

(d) Tractors with 10 tons on front axle and 12 tons on back axle, spaced 10 feet apart, followed by boiler trucks with 25 tons on each axle spaced 12 feet apart, the distance between the back axle of the tractor and the front axle of the boiler truck being 10 feet.

For the purpose of the design of all subsidiary members directly affected, such as floor beams and secondary trusses, the abovementioned moving loads will be concentrated loads, and we recommend that tramcars should be considered as developing an initial impact of 40 per cent. of their static load, and motor lorries 50 per cent. No impact need, we think, be allowed for steam rollers or tractors. In computing the load for the main members, we are of opinion that allowance should be made for a continuous stream of tramcars on both tracks.

VIII.--- Compensation for land, etc.

50. In furnishing estimated figures for the cost of the different types of bridge considered we have not included the compensation to be paid for land occupied or for interference with other rights. The amount of such compensation would have to be settled under the Land Acquisition Act, or otherwise, and we do not consider it to be within our province to prejudice any such proceedings by mentioning probable figures for the expenditure involved. We desire, however, to indicate the various directions in which liability for such compensation may arise.

51. On the Calcutta side, the land to be occupied by the for dation and approaches is Government land, partly in the occupation of the Port Commissioners and partly in the occupation of the Mint.

The cost of protecting, or in the alternative, making good any damage done to Mullick Ghat and to the Port Commissioners' shed at Jagganath Ghat would have to be met from the Bridge Project Funds, as well as the cost of reconstructing the Shradh Ghat on another site, the removal of the passenger landing stage, and the extension of the railway subway.

52. On the Howrah side of the river the Bridge Project Funds would have to meet the compensation which might be legally found to be due in respect of the termination of the lease of such portion of the Port-Commissioners' land as is held by Messrs. Jessop & Co,

53. For the connection between the foot of the graded approach and the Grand Trunk Road, acquisition of land would be necessary, but whether the obst of this should fall on the Bridge Project Funds, or on the local authority responsible for road connections we are not in a position to say. It would appear reasonable that the improvements to the road connections which the new bridge will render possible and which are in any case badly needed at the present time should form a liability on the local authority and, in the event of an Improvement Trust being formed for Howrah, the duty would be that of the Trust.

54. Lastly, we have to mention that in connection with the decision of Government that an opening span is not required in the new bridge, it has been stated by the Committee who reported on that question that 'the only interests which would be injuriously affected would be those of the owners and lessees of the Docks above the bridge which are at present in actual use

for docking ocean-going steamers.

The question whether compensation would be legally due to such interests and the amount of such compensation is a matter which must be left for settlement by proper authority, but we have mentioned it in view of the contingent liability which may have to be met by the Bridge Project Funds and which would form an addition to the initial cost of the bridge.

IX -Condition of the present floating bridge.

55. As already stated, we have made an inspection of the present bridge, and although we have not been instructed in our terms of reference to report on the structure, we think it desirable in dealing with the question of replacement that we should record our opinion upon its condition, because the necessity, which is obvious to us, of arranging for its very early replacement has been a factor in our consideration of the type to be adopted.

At our inspection the condition of the bridge was explained to us by Mr. McGlashan, Chief Engineer to the Port Commissioners. In the year 1916 extensive repairs had to be undertaken owing primarily to the deterioration of the timber beams carrying the floorway. In the course of replacement of these beams by steel girders the whole of the grant tracture was found to be in a year unsertisfactory condition, and one shore structure was found to be in a very unsatisfactory condition, and one shore span in particular was found to be so weakened by corrosion and decay in the main booms that special ties had to be designed and applied to enable the girders to stand up to their work. We may say that three of the members of the present Committee had an opportunity of inspecting the bridge at the time when these operations were in progress. The repairs then undertaken were not intended or expected to enable the bridge to be retained for more than a few years, and any great delay in replacing it, would involve most serious risks and might result in its total loss. It is not necessary for us to emphasize the effects of such a loss on the whole life of Calcutta and its suburbs.

We therefore strongly recommend that without waiting for a decision as to the sources from which financial provision is to be made for the construction of the new bridge, steps should be taken at once by Government through their Consulting Engineers to obtain a specification and tenders for the bridge as recommended by us. We believe that the information and diagrams given in this paper.

grams given in this report are sufficient for the purpose.

EMENT TO THE CALCUTTA GAZETTE, MAR. 15, 1922.

X .- Summary of Recommendations.

- 56. We can now summarise our recommendations:-
 - (a) We recommend, in view of the serious condition of the existing floating bridge and the grave consequences which would result from its failure, that no time be lost in providing a new bridge over the River Hooghly.

(b) We recommend that the bridge should be built of the cantilever type to the leading dimensions, loading and general description shown in this report.

(c) We recommend that the new bridge should be built on the site shown in Plate No. I on a centre line running from a point 630 feet north of the centre of the present bridge on the Calcutta side, to a point 580 feet north of the centre of the present bridge on the Howrah side.

(d) We recommend that steps should be taken at once by Government to obtain a specification and tenders for the bridge recommended by us, without waiting for a decision in regard to the financing of the bridge construction.

57. As already stated in the body of our report, we have answered the first question in our terms of reference in the affirmative, the second question is answered by our recommendation of the cantilever type, and the third question does not arise.

R. N. MOOKERJEE.

G. GODFREY.

C. D. M. HINDLEY.

J. McGLASHAN.

JAMES R. COATS.

C. ADDAMS WILLIAMS.

CALCUTTA,

The 15th February 1922.

Norg.—Mr. Dey being absent, has not signed the report but concurs with our recommendations.

Statement showing the gauge readings at Bacca Water-works Watten on the River Buriganya for the week ending the 25th February 1922.

		AT MIRUSET	WATER.	AT LOWEST	WATER-	AT 5 P.M.	Renaus.
Date.	As z A.M.	Time.	Headings.	Time.	Readings		
1922. 19th Feb.	62-85	16-40	58 · R	10-50	52.0	587	F. T. at 15-3 and B. T. at 18-90
20th ,	52-65	17-25	53'45	11.56	51.65	53-25	F. T. at 19-10 and B. T. at 17-10.
21st e	52-8	7-20	58.0	15-10	51.7	52.8	R. T. at 7-35 and F. T. p. 19-35,
22nd 11	52.65	8-25	52.9	14-35	51.5	52.4	E. T. at 8-35 and F. T. a 16-60.
23rd	52-6	9-40	52.9	15-40	61-2	51.3	H. T. at 9-55 and P. T. a. 16-0.
724th	52.4	10-30	63.2	17-0	51.2.	51.2	E. T. at 16-07 and F. T. a.
25th	52.0	11-20	53.6	104	***	51.8	E. T. at 11-55.

Notable high and low water-levels of previous years.

				Н	ligh.	
27th Angust	8091	464	484		0.5	
5th September	1009	484	***		7.86	
10th Angust	1910	177	ma q		9.06	
lot o	1911	144	400		8-48	
18th ,	1917	***	m d. p.		7.16	
Blat y	1916	414	46.0		9-7	Taken at high tide.
18th #	1916	197	700		81	The same
19th ,	1937	440			7.1	
Stat p	1916	111	100	100 6	9-12	
2nd #	1919	HPP.		111 6	6-8	
fth Captember	1920	ė.	144		4.9	
28th July	1921	534	P4.4		8814	
		**-	4			
					OW.	
28rd February	1907	priod.	P11		4-06	1
18th	1908	844	H11	!	51:06]
18th March	1912	121		P4 4	61:06	
E+1v	1914	10.4	419		50.60	
22nd February	1915		***		50.80	1
4 fight	1916	-	100		50.60	l'Taken at low tide.
Sed March	1917	44=			61.0	i
11st February	1918				6140	
HOAL.	1919	411	407		60-4	1
	1920	10-0	***		50-9	i
18th ,,		461	411		50-9	ì
19th n	1921	MI	111	984	AL a	,

B.B. - Zero of the gauge at Daous Water-works = - 48 h1 with reference to F. W. D. datum.

DACCA, The 5th March 1922. Benode Behari Roy, for Executive Engineer, Dacca Division.

w

Statement of wookly gauge readings on the river Gauges at Hampur Boalla for the wook ending the 4th March 1922.

Date.	Hour.	Height of multace above to below spice sabuse sign for three below sero.	Height of surface above ment are level according to P. W. D. datage.	Height of surface above usesu con- level on the same data last year according to P. W. A. datum.	Bemurke,
1922. 26th Feb 27th 26th 1st Mar 2nd 3rd 4th	8 A.N. 8 42 8 22 8 24 8 25 8 26 8 27	Zero of gauge is at mean sea-leval.	36'40 96'30 36'26 56'20 36'10 86'05 36'00	36°10 36°10 36°10 36°05 36°05 86°00	P. W. D. datum 6'25 feet above Kidderpore old dock sill. B. M. on College step 64'98.

-					· Old value, '		According to P. W. D. datum.
The previous year	140	Highest	water-level	***	59:29 on 7th Beytember 1921		60-80
Ditto	+- :	Lowest	н	87.4	33:39 on 21st April 1921	401	84/90
Record	444	Highest	33	ę.,,	69 25 on 26th August 1878	*14	64-44
Do.	444	Ditto	0.00		69 08 on 9th Saptember 1885		64-27
Do.	***	Ditto	PP PP	111	68-80 on 26th August 1906	***	68:47
Do.		Ditto	ы:		6821 on 26th August 1890	411	66.40
Do.	141	Lowest	10	144	87468 on 25th April 1884	247	82.83
Dv.	17.1	Ditto	81	111	86'13 on 14th and tark April 1868	144	88-32
Do.	+1-1	Dinco	91	11.1	SPO2 on 21st and and April 1897	444	84.21
Do	F F I	Ditto	11	***	89-28 on 6th and 7th May 1908	***	84:47

N. B.-The gauge reedings commenced from the let August 1887.

BOALIA,

S. C. BHATTACHARJI,

The 4th March 1922.

for Executive Engineer, Rajshahi Division.

Statement of weekly gauge readings on the rivers Ganges and Brahmeputra at Goalundo for the week ending the 4th March 1922,

Mon	lb nod di	ate.	Bour.	Height of surface shows or below zero of gauge.	Height of our face whose pass a non-week.	Height of surface abuve mean ma- level on same date last year.	Romanige.
	1922.						
26th	Feb	142	7 A.M.	514	514	5:4	Zero is placed at mean sea-level.
27th	10	0.10	7	9.9	5.5	5 2	
d#85	41	1 1 1	7	5.5	5.5	δ-1	The bench-mark for the gauge is
1 at	Mar.	414	7 ,,	5.6	5.6	419	on' a pucca pillar between the
2nd 3rd	16, 92		7 .,	5.6	5.4	4.8	passenger ghat and Chandous
3rd	11	***	7 ,,	5.7	5.7	160	ghat.
4th	21	489	7 ,	5.8	5.8	419	Its reduced level is 26:84.
						:	

			,			
The previous year Ditto Record (H.F. in	Brahamp	u brit	Highest Lowest	water-level	***	25'8 on 27th Sebruary 1921. 4'8 on 19th February and 4th March 1921.
	1.2		Highest	-1	194	25-75 on 28th August 1906.
Record (H.F. in		utra	Ditto	19	***	25.74 on 20th and 21st August 1893.
and Ganges) Becord (B.F. in	Brahmapi	n C.ma	Ditto	11	•••	25-56 on Hill to 17th and Slat August and on 1st to 5rd September 1889,
only)		pe-1	Ditto	13	1++	25'66 on 81st July 1990
Do.	***	F# 3	La west	17	444	10 on 8th February 1914.
Do.		60.4	Ditto	Pa Pa	+44	2-42 on 18th March 1908.
Do.	111.70	***	Ditto	Н	444	291 on 21st to 24th February and 8th to 9th March 1884.
Do.	111	411	Disto	- 11	424	#16 on 8th to 11th March 1886.
Do	***	177	otaici	н		S-16 on 16th, 17th and 19th to 81st March 1901.

N.B. . The gauss-readings commenced from fiel October 1909,

RAJBARI,

R. C GUHA,

The 5th March 1922.

for Subdivisional Officer, P. W. D., Faridpur.

Wholesale prices-current of food-grains, sail, etc., in the Indermentioned marts of Bengal for the second-half of February 1822.

				PADI	A (WHAL GOVER.	rr).		
Maçis.		Prepart return.	Rest preceding	Corempositing recurs of 1981.	Ourselponding paturn of 1920.	Corresponding return of 1919.	Corresponding return of 1818,	Corresponding return of 1017.
1	!!-	3	8			8	7	
		70. A. T.	RH. A. F.	Bat. A. P.	Rd. as Pr	RB. A. 9.	BH. A. P.	H4. A. P.
Galgatia				318 0	4 4 9	8 '6 8	2 12 0	3 4 5
Chella Håt				described.	E SA 684			0.4.4
Buckets	#1+	3 6 0	270	8 18 0	4 3 0	3 8 0	200	
Kaina	н	*****		847 499	to hell	d-td mp	******	1
Ranigan)		ma 1 144	******	49****	241500 0	,	407.070	HILIPP
Miduspors	le:	300	,3 0 B	3 5 0	4 = 0	3 4 0	1 14 0	2 4
Outtegong	401	200	(4)	(a)	(a)	200	2.4 0	-
Cheudpur	149	461 517				\$44+11	,→ = *	
	111		244	3 12 0	4 8 P	3 8 0	240	3 4
Dagga	411			111 612	A44 489	ranges	aurore.	488.000
Maraya official			MINI		440 511	*****		
Mymensingh	***	,	400.071	· Bad data	*********	ng pg dall t	20- 010	rea mile
Madariput	14			4 18 6	440	2 6 0	200	m 11
Pabua	-	3 4 0				*****		87 - 1-11
Strajgnoj			1-110			2 1 0	1 12 0	8.14
Bangpar +-		. 300	200	3 10 0		1 - 1		

				PADDS	(COMMON GOV)	uriti).		
Maria.		Present retarns	Next preseding	Operesponding personnel of 1931.	Carresponding return of 1920.	Corresponding relate of 1919.	Corresponding peturn of 1918.	Corresponding return of 1917.
			10		19		14	12
		Balle Ar Pr	Bs. A. P.	BS. A. P.	Rife As Pr	Ribs do Po	Bills du Pe	86. A. P
alontin -		2 8 0	2 6 0	200	400	3 0 0	9 4 0	2 10 4
heth Hit	1114	99.00.0	=	5-p		gas and	- 10 -	
ardwar	400	3 4 0	3 3 0	3 4 6	4 1 0	3 0 0	1 10 0	
atea	,	n mandet		444944	*****	464 = A1	887***	100 101
antinis)	40-1		201 114	******		141000		
Idnepore	844	2 11 2	9 15 0	3 2 0	3 14 0	300	1 * *	8 3
hittagong	***	2 2 0	2 2 0	3 8 9	4 4 0	8 15 8	2	(f) 10 ·
handpur	wel	247-514	B4 - F-4	888 817	441 444	+44 444	- sedesh	
36006 to		2 14 0	214 0	2 14 0	400	340	1 12 0	3 0
(Makedden)	8.14		484 545-	q=4 Max		age more	41 * 144	417
Lymansingh				41140		iam ,	991-199	
Ladariput		1	+675 = 7 *	Spin gard	*****	202 884	ne I d Mil	2.7
Pabus	11.0		203		4 2 0	2 4 0	1	
			4.114		0.000	Life of the same	444	9 8
Bangpur				3 8 6	100	1 4 A		2 *

hold ale prices-current of food-grains, sait, etc., in the under-mentioned marts of Sengel for the second-half of February 1922,

				Rit	ik (mear quadr	TT).		
Magas,		Present return.	Next priceding raters.	Occresponding return of 1831.	Corresponding seturg of 1920.	Corresponding return of 1919.	Corresponding return of 1918.	Corresponding return of 1917,
		16	17	16	10	20	41	#1
		Re. а. р.	Ra. a. p.	Bu. A. P.	Mil. d. p.	188. а р.	Rs. A. P.	Ва. д. г.
Dalati Van 🚁	991	3 D 0	# C D		10 0 o	* * 0	6 8 0	7 0 6
Chetta Hit		4000	4+48+>	add 815	bs	Bitteler		una trop
Bordwen			8 6 0	10 D G	7 4 6	7 6 0	600	7 0 0
Kulou			4414+1	411.411	****	844 445	791111	311.335
Baratgan)	ы.		****** B *	111	201	PERM	*****	erra test
kidnepore	··· j	800	800	0 8 0	10 0 0	6 4 0	400	4 10 0
Distriction		.000		10 G D	18 0 0	10 0 0	8 0 0	8 4 0
Chandpur	!			******	PF 141	1		111 =4-
Decon	- 144	6 10 G	A 18 0		7 0 0	8 4 0	400	
Harayangan)	141	*****	941 saw	1-4	******	*1 80-1		q q a don s
Lymouningh	184		*****	***	******	*****	bee has	44+10-1
Ladsripus	***	44h may	814880	B+++++	.,	mire a s de	#1448h	100
Pabea	date	7 9 0	700	19 0 0	11 0 0	7 12 0	4 12 0	7 8 4
liya jiy atij	[464111	*****	herana	117841	depay on y as	11144	.,
langpar		6 4 0	6 4 0		789	8 4 9	8 0 0	4 5 4

				Rich	(сожион баул	ITT).		
Marte.	,	Present retorn.	Next preceding potition.	Corresponding return of 1981.	Corresponding return of 1930.	Corresponding return of 1919.	Corresponding return of 1918.	Our responding return of 1917.
		#3	14	Th.	26	37	26	
		BE. A. P.	Вя, д. у.	Ball A. p.	Rai A, Y.	Ва. д. г.	Bs. A. P.	E4. A. P.
biloutia	-	7 0 0	700	8 4 8		4 4 0	4 = 0	6 10 p
Shotia Hat		961 ~10	******		data man	41.4 days	1*****	-
Burdwan	877	5 5 6	360	7 d p	4 4 0	# 10 o	3 4 a	3 1R p
Salot us		447-666	111411	BLE SAN				414 000
tanigenj	m.	title man	1001.1		MILLI	hadaga	W04 V 1 *	********
diésepore			5 4 0	400	6 19 B	6 8 p	300	44.
roldingond	BH4	8 8 0	5 11 0	4 8 b	7 0 p		3 8 0	4 4 0
linodpur 😅		444	400000		1177999			
Dacca	441	8 0 0	504	6 19 p		4 9 0		H1 III
lareysagus į.	man.	77* 884					3 19 B	
Lymousingh	Ber -	tra bas			the top	155.50-1	Para 648	
federloor	901	N/P MAI		naddo j	011 100	199301	deburring	*64#6
abos		-	Min rer		F94-004	****	******	******
	400	6 10 0	E 10 0	720	700	6 11 0	8 4 0	4 10 0
	_	*******	Min t dates	4.40	drapes	ometr.	******	, PAGE
periodicina	terr	4 18 p	4 18 8	7 8 0	6 8 8		400	4 10 0
			1			′		

Wholesale prices-current of food-grains, east, etc., In the undermentioned murts of Bengal for the second-half of February 1922.

		7			WHEAT.			
Marin,		Present relata.	Next preceding return.	Corresponding system of 1921.	Corresponding return of 1930.	Corresponding return of 1919.	Corresponding retarn of 1918.	Corresponding nettern of 1917.
		10	81	P1	, 13	94	36	16
		R6. A. T.	Rui. A. P.	38. A. T.	136. A. F.	15 Rs. A. F.	Bar Ar Pr	R8 A- 2-
Jadoutha	119	S # 0	5 2 9	6 4 0	# 0 9	7 4 0		4 10 0
Statin HAt		PAR *8*		A #####	E 2 4 4 M	181 4-1	g. comple	Primare
Burdwap	+44	200	8.0.0		7 8 0	7 P 0		5 4 6
Calpa	F4A	lo 9 6 0	10 0 D G	101 to 2 de de	700-44	451-1-		100,000
Sublgani			abs add	dra hall	******	. *******	94-4 M	hap-min
Eid naporé ···		900	9 0 0	7 0 6			6 8 0	
hittingong	441	tir mm	Lesdah	#111bb	166421	887 798	4444-	114 500
Janadper		444.480		475.445		78777		graph com
Decon	1114	700	7 0 0	7 8 0	8 4 0) I	******	
(ecurangua)	qdh	*****		***	115-048			977 PM
Myznenstogh	111	4 74144		+44.7**	111111		434+00	444 444
Mederipur			******		*** ****		ann mah	B44 140
Pabus	IN I	E 19 0	6 12 0	3 4 9	6 11 D	÷4		4 4
Sirvigani	84	, passo	mar-r-			444	414-94	
Sangpur		6 12 0	612 0	6 11 D	700	800	# D 0	

					KALAI DAL			
Maris.		Present return.	Next preceding return.	Corresponding return of 1991.	Corresponding return of 4890.	Corresponding retuca of 1919.	Corresponding return of 1918.	Correspondig return of 1817.
			38	33	40	41	48	48
		R0. A. P.	Rate As Pr	RE. A. P.	RB. A. P.	Rik a inc	186. A. P.:	Ella A.
Jaloutta	8.77	000	6 0 0	6 8 0		10 0 0	6 8 0	4 18 (
Obetla Hita.		Ban HEE	49844	494 - 149		0+1+30	411107	thu su-
Bardwat			7 10 D	6 8 0	5 8 0	19 G D	8 9 9	8.6
Kaloa			num.	112.121	SILVE	M4411	864 199	(0.0.110.
		200.000	198917		611-41	100-101	8+4****	was teld
Midneporo	410	2 4 0		7 12 0		10 # 0	8 8 0	6 18 1
- paragraph of						1		
Objettegang	146	em had	******	+01771	*****	a min Barra	Mark a state	Bild con
Chandpur 🛶	441	204344	971196	*****	h=- = +			411.40
Dagga	***	4 8 9	4 8 9	7 6 0		300		Tree ed.
Marayangtan	4-4	444.004	der h == 4	*** office	441-11	4="-	414.41	******
Mystereingh		000000	94114	+1 = 444	50744	749 ***		
Madazinur 14		********		H1-6 000	90110	*****	*****	44194
Pabas	441			4744	104.17*		277404	
=444			464.414	m== 450	n des \$10.5	41,5004	401100	\$6.0 104
	411			424.400	******	nd 6 494	deline.	401400
Bangpur or		411001	400 ***	*******	F.			

Wholesels prices-current of food-grains, sait, etc., in the undermentioned marts of Bengal for the second-half of February 1922.

Marta. Calculta an est	Present return. 44 Da. A. P. 512 6	Next preceding poture.	Corresponding return of 1921,	Corresponding rature a of 1090.	Corresponding return of 1919.	Corresponding results of 1918.	Corresponding return of 1917.
	Ba, a. P.	48	46	47	48	49	BÓ _
		da, a. Fr		1			
	5 12 O		Blacks Pr	Ru. 4 - 2 -	Bas As Ps	Back, Pr	Re. A. P.
Cheth Hitter		6 19 0	600	8 4 0	600	4 0 0	2 19 6
	Ban 991	884179	1000-1	les- ess	417441	100 444	en 4 484
Burdwan		B 18 9	412 0	7,40	= 0 0	3 0 0	8 14 0
Kalina	a-1 * 5-0 b	to W ·		441.11			411*17
Banisani	+>-==		4dra for I	******	E44 MH	10h = = 11	******
Minusppre	8 6 0		8 0 0	7 B C	7 # 0	4 0 0	4 2 0
Onlittagong	8 0 0	800	8 0 0	9 12 6		6 0 0	
Chandpur		Mah	n#4++1	district.	*****	949-119	s.ues.bl
Ducon in the	E 0 0	600	8 B D	0 12 0	*****	*****	
Marajangauj		Bu Lavah	104.04	H1 44	#81 (00·	******	n. Ir a dalma
Mymensing's		t - veltenk	*****	141 111	14 140	94-144	4 = 649
Madaripur	*****	411.66	with hite	194 993	*****	and all bird 4	1 4 m dada
Palme	****	171494	41	min que	******	BALLES	Ham
Birsjgenj		011100		883.389	*****1	445 664	444
Rangput	a a m dela la	111-7-	414004	-1	E40	# 84 p = 4	++1-444

												ARMAT	D	ă.E.,												
Marie.		Present	red) to	ra,	Nex	t pre-	20 d l	ng	Correspo return 1991	a of	ing _{to}	Corbeips retain 1959	a of			tere 1 II 1:	100		Corre	aba ntr	to a	làg:		pon uro 17.	of	ME
		- 81				12						14				68				58				57		
		Ra		p.		Ba	۸.	Þ.	Be.	ă.	۲.	20.	٨,	P.		Вч	٨.	Р.		Ru,	, il.	p.		la. a	ń.	P,
Calontin	***		8	•			8	0		4	0			0		7	12	0		6	P	0	4	F 11		Q
Opetla Håt	564					410-19	14		bb4 **	14						D+++ as	**			++=+		. ,		io liqu		
Burdwan	-	10	Ü	0		10	9	0		0	0		0			13	0	0		4	ı.	0	1	4 (6	•
Zaine	***					14 ° P	-		441-	L II		***	41		P		17			gu e qu	.,		-	r y diska		
Banipanj as		100-1				,	н			-		4114	-04			00 1 d	11			paper mi			,	11-		
Midnaport	4==	11	0			11	0			*	0	18	0	0	to	D 11		0	to	6	0	0			•	•
Ohitingong		10	0	0		10	8	0		•	0	, IL			-	10	8	0		ĕ	ō	ě	1	0	0	4
Ohnuápar	-	***	101			***	-			1+		-,	7878			100-4			,	0004	**		-			-
Dance	44.1		8	ŭ			9	0	9	0	9	12	0	0		9	0	0		ø	0		1.4	6 4	9	0
Harayangan)	4+*	pas	000			+	**			16		6444	Lb.			P 9 P - G	н			0 h 11 m				m .++		
Mysenostingle-						411,	40		1 +==-	LE			м		1	44=0	44			0 pag ap	04					
Madaripar	89.7		- ++			1 444	+4			· p ·			140			٠.,	+ P			114 0	-			1191		
Pabee	-	11	0	0	í	- 11	ò	0	in			12	0	.0	L	10	11			6		à		1	Ģ	0
Sirajganj	-		-			4141	41		n.p. 6	ur r		401				44-4	-			PH 1	110					
Bengper			0				0	0	16	0		Çar	}			10	a	Ď,		8	ø	0		7 1	b	

(a) Not uvallable.

Whelesale prices-current of food-grains, salt, etc., in the under-mentioned marts of Bongal for the second-half of February 1922.

	T		Lansued.			M UNTLED.			GER.	, ,	Ogyron (cn418m2b).
Marrie-	1	Present return,	Next preceding return.	Correspond- ing return of last year.	Proment retwen.	Next preceding peturn.	Dorresponding return of last year.	makares.	preceding log	respons- rectire and year.	
		68	59	40	61	42	41	44	65	44 67	- 65 1 69
		Ber Al Pe	Ru. A. P	. Kin. A. C.	84 A. P.	Ba. A. P.	Bas As Pa	Ro. 4. 7.	Rat. & Pr Bi	sair, Bra	Pa Ba da Pa Rita da I
mion#46		11 0 0	11 0 0	12 4 6	10 0 B	10 0 0	12 0 0	9 9 0	10 0 0 10	0 0 20 0	20 0 0 25 0
	411	polytika		.,	energist.		4- 8+1		PERMIT		
		107	(a)	980	15 B O	3 0 0		B D 0		0 0 20 0	8 28 8 D 27 0
iri man-				i			brure			escon Dec	
CHIDM	7	****	[[dense]	-	884 187	1	!				
Renigrans		4844	j prodet						1	0 0 0 32	0 22 0 0 22 0
Mignapote	86.4	800		2 4 6	10 8 0 0 10 of						
Oktangone.	100-	11 0 0	10 0	0 10 0	8.04	9 0 0	7 6 0	10 9 0 6	16 9 0 0		d = 13 = 0 = 0
Spandpiir	pp.	} # # # # # # # # # # # # # # # # # # #	4441	*******	-1- +-1			B B I		H B 0 :	
Диары	Bak II	7 0 0									
Harnyampani		441179	,44.000	461111	441999		811146	151887	111-444		
Kymenzingh	-	84.11	*****		411 777		ALI BET	1	+1-	- 33	
Madaripur	·mq.	******	111797	48411	Be 1 4 4 4			11 / 1947		- T	
Palma	_		7 0	0 6 D	0 78	7 9	G 6 12 1	6 5 19			para virtual design
Sirajgun)			70710		durbin	1		***.**	_ [Aug. 100 11
Backpur	+++		w/k 0+1	7	# D	n 7,0	0 7 8 4	7 0	# 8 0 0	10 0 0	- 150 Aqu. Ann 1

	-					ידיט <i>7</i>						1					-	G III II	.ш.									HIDE	a (t	(# 00	4		
Marin.		Pret	nin t rati	uen.		t pre		ug	Dor	rehpt gra c you	ndto Elus t.	ill i	Promo	Po	¢IT (F)	å		pri prilli	oedis	w :	Cate	yest yest	[liv		Presug	t rut	ure,	Next 1	T IN EV		retu	olpon ru of July.	anti
4			76		i	11				75			7	T.B.		!		74		i		75				16		 	77			71	
		· ·	Ba. A	. P.				p.	-		A. I	P.	II	Ma .	Mil			B4.	A. P		_	Hai.	٨.	٤.	Ta.	. A.	P.	Re	A	, P.	10:	i a	. ,
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otla Fht	H19	(i)	7 8	. 0	(0)		18	9	(8)	1544	(n) 	Į	++	Hann				747-		i		***				a = 1:4 %						****	
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⁽a) Not available.

^{(1) &}quot; Price of fest tours."

^{(8) ,,} Mufüppeq nauende bries.

JPPLEMENT TO THE CALCUTTA GAZETTE, MAR. 15, 1922.

Wholesale prices-current of food-grains, sait, etc., in the undermentioned marts of Bengal for the second-half of Fahruary 1922.

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J. C. Roy,

for Director of Agriculture, Bengal.

Prioss-ourrent (retail) of food-grains, salt, etc., in the districts of Bengal for the second-half of February 1922,

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(a) Not available

Prions-ourrant (retail) of food-grains, sait, etc., in the districts of Bengal for the second-half of February 1922—concid.

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J. C. Roy, for Birector of Agriculture, Bengal.

DACCA, the 9th March 1922.

DISTRICT REPORTS ON WEATHER AND CROPS

For the week ending on the 5th March 1982.

Summary.—The weather is continuing dry. Harvesting of spring crops is in progress. The continued absence of rain is retarding the preparation of land for jute and other autumn crops. Sowings are being delayed and the growth of standing crops is being affected. The average price of common rice has slightly risen as compared with that of the previous week.

1	District and		Philips of Co	MINON RIGH, LN PER RUPER.	Cimreter of the weather, condition of ceops, ste.
ria I	m polivision-	Rain feli	This work.	Provious week.	
1	*	1	4		
1	24-PARGANAS	Inches.	5#	59	Lands are being prepared for jute and can paddy. Effect of weather on the crops is good. Fodder and water are
	Diamond Harbour.	Nil	61	7,26	mufficient.
-	Barrack pore Barasat Basirhat	Nil Nil Nil	61 61 7 3	61 61 61	
2	NADIA	Ņil	7,16	7	Harvesting of rabi crops continues. Rain is wanted for ploughing. Cattle-disease is reported from Chakdah, Ranaghat, Karimpur and Nabadwip thomas.
	Kushtia	Nil	6#	6 ½	Managinas, troumles, and
	Meherpur	Nil	71%	71	
	Chuadanga	Nil	71	71	
	Ranaghat	Nil	6#	61	Prospects of standing crops are fair. Fodder is sufficient
3	MURSHIDABAL		7	71	No large import and export of rice.
	Lalbagh	Nil	7	7	
	Jangipur	Nil	71	7 + 8	
	Kandi	Nil	8		
4	JESBORE	Nil	8	81	Weather measonable. Harvasting of rabi crops continue Prospects of standing crops are not favourable for wa
	Jhenidah	Nil	9	9	Prospects of standing crops are reported from Bougaon at of rain. Export of paddy is reported from Bougaon at Junidah audivisions. Fodder is sufficient. Scarcil of drinking water is beginning m be felt.
	Magura	LIN	9	9	
	Narall		9	9	
	Bongaon	Nil	81	8‡	
1	KHULNA	Nil	8	8	Want of rain is retarding the agricultural operation Scarcity of drinking water is beginning to be feit in sor player.
	Satkhira	. Nil	8	8	риков.
	Bagerhat	Nil	8	(n)	
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LEMENT TO THE CALCUTTA GAZETTE, MAR. 15, 1922.

Butin Ho.	District and saltivision.	Rutajaji.	PRICE OF OCCUPANT OF THE PRICE	DER HOPEL	Otravaster of the wenther, condition of acoust, cto.
	17.268.		This week.	Previous week.	
3	*	*	41	b	4
		Inches.			
6	BURDWAN	Nil	64	6	Weather is cool. Threshing of winter paddy and press-
	Asansol	(n)	(n)	51	doing well.
-	Katwa	Nil	6]-5	61	
	Kalna	Nil	65	64	
7	BIRBHUM	NII	61	64	Condition of standing crops is fair. Fodder and water
	Rampurbat	Nil	64	6#	are sufficient.
8	BANKURA	Nil	7	* 7	Export of ripe and paddy continues. Pressing of sugarcace is in progress.
	Vishaupur	Nil	61	7	
9	MIDNAPORE	Nil	7,5	7_{1}	Rain is wanted for ploughing. Harvesting of rabi crops is in progress. Fodder is sufficient.
	Jhargram	(n)	7	7	18 10 brodless. Loades is similare.
	Ghatal	Nil	71	7	
	Tamluk	Nil	78	7.1	
	Contai	Nil	81	8‡	
10	HOOGHLY	Nil	51	5	Effect of weather is unfavourable. Rain is urgently needed. Fodder is sufficient.
	Serampore	Nil	6±	61	meeted. Founds is sufficient.
	Arambagh	Nil	6	64	
11	Howrah	(n)	(n)	(n)	Report not received.
	Uluberia	(n)	(n)	(n)	
12	RAJSHAHI (RAMPUR- BOALIA),	Nil	7	7	Ruin is needed. Condition of standing crops is fair. Fodder and water are sufficient.
	Naogaon	Nil	77	7 7	
	Nator	Nil	74	71	
15	DINAJPUR	Nil	81	81	Harvesting of rabi crops is going on. Fodder and water are sufficient.
	Thakurgaon	(n)	9	7	
	Balurghat	(n)	7±	74	
14	JALPAIGURI	Nil	-8	7	The weather is favourable for the preparation of fields for jute and bhadei paddy. Harvesting of tobacco has
	Alipur	Nil	8	- 8	commenced; the outtern is expected to be normal.

SUPPLEMENT TO THE CALCUTTA GAZETTE, MAR.

aurial	District and	Rainfail.	Paice of co	MNON BICK OF	Operators of the mealbur, consisted of saffin, sto.
No.	rabdivision.	* Bretturers	This week.	Previque week.	
1	2 ,	ı	4	•	•
		Inches.			
15	DARJEELING	Nil	4}	44	Sowing of mains is in progress. Fodder and water are
	Kurseong	Nil	- G≟	61	
	Siliguri	Nil	- 71	7₺	
	Kalimpong	(n)	(n)	6	
16	RANGPUR	Nil	8	81	The condition of standing crops is good. Fodder and water
	Nilphamari	Nil	9	9	are enficient.
	Kurigram	Nil	9	81	
	Gaibandha	Nil	8	72	
17	BOGRA	Nil	81	81	Ploughing of lands for sugarcane, jute and one paddy her going on. Rain is necessary.
					Prospects of standing crops are fair. Rain is badly needed
18	PABNA	Nil	61	7	for the preparation of lands for our paddy and jute. Pressing of sugarcane is in progress. Fodder is suffi-
	Sirajganj	Nil	7	7	cient.
19	MALDA	Nil	7‡	74	Weather seasonale. Transplantation of bore paddy continues. Harvesting of rabi crops continues. Fodder and water are sufficient.
	-				
20	COOCH BEHAI	Nil	87	98	Weather measurable, Condition of standing crop in favourable. Harvesting of haimants paddy has been finished and the outturn estimated at 15 annas.
	:				Weather is not messonable. Rain is badly wanted for the
21	DACCA	Nil	64	67	growth of standing crops. Harvesting of barley has gottomenced. Cattle-disease is reported from Narsyanganj
	Manikganj		8	8	aubdivision.
	Narayanganj	Nil	8	8	
	Munshiganj (a)	(n)	74	(n)	
22	MYMENSINGE	Nit	7	71	Weather cool and dry. Harvesting of rate oropa is nearly finished. Preparation of soil for jute and paddy continues.
	Jamalpur	Nil	81	8	Rain is hadly needed. Prospects of born are the good
	Tangail	Nil	711	71	deaths reported from Sherper, narrates and Appending Fodder is available. Scarcity of water is apprehended at
	Netrakona	. 0.01	74	8	Kishoregauj.
	Kishorganj	. Nil	72	8	,

⁽a) Manahiganj being very near to Dacon and Barayanganj, its rainfall statistics are not quoted. To give information regarding the northern part of the district, rainfall figures for Kapasia thans are reported here.

(a) Not reported.

Serial	District and middythion.	Balatall	PRICE OF CO	HHOP ROW IN	Churacter of the resulter, condition of erops, ata.
bio.	BEERGI VINOE.		This work.	Provious week-	
1	2	1		6	8
		Inches.			
25	FARIDPUR	Nil	{ 8 7*	8 7* }	Cultivation of lands for jute and paddy is continuing rain is urgently wanted. State and prospects of stand-
	Goalundo (Rajbari).	Nil	71 .	71	ing crops are favourable. Fodder is sufficient.
	Madaripur	Nil	9	9	The state of the s
	Gopalganj(a)	Nil	. 9	(n) _*	
24	BAKARGANJ (BARISAL).	Nil	8	8#	Weather dry. Prospects of standing crops are fair. Fodder and water are sufficient.
	Pirojpur	Nil	81	8#	
	Patuakhali	Nil	71	*8	
•	Dakahin Sha- bazpur (Bhola).	Nil	713	7 3	
25	CHITTAGONG	Nil	$\begin{cases} 7\frac{1}{6} - 1 \\ 6\frac{1}{6} - 1 \end{cases}$	7 i 6 i * }	Cultivation of pania and crops has commenced. Prospects of standing crops are fair. Fodder is sufficient. Panga salt is selling at 9 and 94 seems per rupes at Sadar
4	Cox's Bazar	Nil	7	8	and Gox's Bazar, respectively.
26	TIPPERA (COMILLA).	Nil	7±	71	Weather dry. Rabi crops are withering for want of rain; prospects are not good.
	Brahman- baria.	Nil	6]5	74	
7	Chandpur	Nit	72	8	-
27	NOAKHALI	Nil	71	74	Weather seasonable. Rain B badly wanted. Fodder and water are sufficient.
	Feni	Nil	8‡	81	
28	CHITTAGONG HILL TRACTS.	Nil	(n)	(n)	Condition and prospects of rabi crops are unfavourable. Jhum cultivation has begun.
29	TRIPURA STATE.	2.25	8	7	Weather seasonable. Prospects of standing crops are fair excepting four divisions. Jute is selling at Rs. 42 to Rs. 55. Fodder and water are sufficient. Cattle-disease is reported from three subdivisions.
1					u

⁽a) The rainfall at Haridaspur which is very near to Gopalganj is shown here.

⁽n) Not reported.

List of prices of articles of food at Caloutta during the week ending Saturday, the 11th March 1922.

Names of articles.		WHOLESALE PRICE PRE		RETAIL PRICE PER SEER.	
		From-	To- 1	From-	То—
	1	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
lice—		6 6 0	6 12 0	0 2 9	0 3 0
Bulam, coarse	• • • • •	7 8 0.	8 0 0	0 8 0	0 3 3
medium		6 4 0		0 2 9	*****
Patnai coarse		7 4 0		0 3 0	
, medium		7 4 0		0 2 9	4 5 5 7 7 7
Nagra, coarse	***	7 12 0	117741	0 3 0	*****
" medium	149	7 8 0	P#1467	0 3 0	
Dudhkalma	***	1 0 1	4 - 9	0 2 6	1
Rangoon Boiled	8.04	*****	*****	0 2 3	
" Kajla			*****		******
Wheat, Dudhia	440	9 14 0	0 0 0	415441	
Jamali	***	7 12 0	8 6 0	. ^ / ^	
Fram, Patnai (whole)		9 0 0		0 4 0	440480
, e dal		11 8 0	12 0 0	0 5 0	0 5 0
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		8 0 0	8 4 0	0 4 0	. 0 5 0
(Kwishna)		7 4 0		0 5 0	0 1 A
35 11 (4=-	8 0 0	-11 8 0	0 8 6	0 4 0
Irhar o	1	5 8 0		0 2 6	0 2 9
Masur , (split)	+ 1 4	8 12 0	9 0 0	0 4- 0	244014
" " (Khanri)	***	6 12 0		0 3 0	
Kalai ,	444	2 5 6	2 7 0	0 1 3	0 1 6
Salt	***	13 8 0	13 14 0	0 6 6	0 7 0
Sugar (Brown Java)	***	10 0	1	0 5 0	4 5 1 1 2 7
Gar, Bheli		*****	1	0 4 0	
" Bhursut	***	1 8 0	9 0 0	0 6 0	
Milk	4 **		25 0 0	0 11 0	0 13 (
Mustard Oil	- 4 -	2000 -	20 0 0	0 4 6	0 5 (
Flour (Country)				0 1 0	
Atta No. 3		7 2 0		0 3 6	0 4
,, 21		7 9 0		0 0 0	
" "В				0 5 0	
Soil	4 * *	10 8 0		13	
Ghee (Bhadwa, Matki, etc.	.)			1	,
Dottieam Khuris.	Ruto,	78 0 0	79 0 0	1 15 0	2 4
Etwa (better kind),	etc.]	
(Lolli Riwa, Sagar, o	stc.)		64 0 0]]	
Maize		5 0 (******	4 4 1 1 1 1
Potatoes		3 4 1) 4 8 0		0 2
				0 14 0	1 0
Patal				0 1 6	
Brinjal	**	4 19 1	5 0 0	0 2 0	
Onion	* 1	15 0	0 18 0 0		
Fish, Rahu	4"			1 0 0	
Mutton (2nd class)		4 143441	******	0 5 0	0 8
Beef (2nd and 3rd classes))	******			1

N.B.-This is an abstract for price of the following markets :-

Wholesale.-Chetla Hat, Ramkrishnapur Hat, Sealdah Fish and Milk Markets and Posta Bazar.

Retail.—Sir Stuart Hogg Market, Orphanganj Market, Sova Bazar, Nutun Bazar, Raja Babu's Bazar, Karaya Bazar, Taltela Bazar, Mullick Bazar and Jogu Babu's Bazar.

/ H. L. MUKHARJI,

for Commissioner, Presidency Division.

CALGUTTA, the 11th March 1922.

Vital Statistics for the month of September 1921 of the Districts

					HO OF BRIDE	KBOISTRA- MSD4 OF 1911.	BIRTH II	COLUMN CO.							7	рватщ
Division.	No.	District		Rale.	Female.	Trotal.	Number registered (analoging still-birthe).	Still-born number registered.	Obolera	Brad-pat.	Player	Mabels.	Raterio fores.	Messha-	Belapping forer	Kola-Amer
6	1	Burten	_	230,304	726,140	Eye05,004	8,442	16	48	-	200	9.318	. 1	-	404	
	1	Birbham	***	463,000	471,486	935,473	1,510	21	91	1		1,866		ļ	Fra	
	- 1	Beakure		634,380	647,314	1,083,484	1,010	1	88	1.51	1014	900	and the	***	. 1	8.5
Burdwan	. (Midnegur	****	1,846,893	1,880,478	8.770.00T	4,410	107	35	U I		1,847	284		61	-6
ļi	ě	Booghly	del	461,000	484,799	064,716	1,611	44	117		+11	1,961	10	1-1	414	Hı
-	6	Bowenh	mà e	500,586	373,194	741,719	1,567	7	23		771	176		41	++4	
	7	14-Parguam	8+7	4,065,789	941,809	1,947,861	2,514	16	37	11	.,.	3,328	160	n		n.
	В	Nadit	44-	763,694	779,388	1,555,106	3,005	79	ı		105.	3,463	100			
Providency	9	Morehidabed	141	680,301	867.768	1,997.069	1,350	160	41-	16		2,830	- mp-	-	711	
	10	Jamine		902,004	657,179	1,708,294	2,967	zte	11	3		2,073			see f	450
ll l	11	Ebulos	_	895,764	647,674	1,049,048	3,091	184	10		-	1,780	_	100	414	- 40+
f	12	Eajababl	Ha	748,140	716,003	1,487,161	2,618	##B	189		-	2,668			189	***
	18	Dinajpur		880,218	761,480	1,671,918	8,941	346		10	_	3,066	9		2	
-	14	Julpalguel	,	(68,68)	400,214	468,098	8,176	178	b	٠	847	2,071				491
Federald	15	Darjesling	****	140,460	3 L6 ₁ 00 k	345,846	708	10		48n		257	-	***		rdh
- 1	16	Bangpur		1,344,300	1,194,090	2,308,901	6,820	. 1003	90	6		2,107	- 844	1	66	***,
	17	Bogra	ark b	502,520	481,061	943, \$67	1,898	113	L91	4		1,691	21	Mart .	100	/ / / / / / / / / / / / / / / / / / /
4	18	Pabon	-	700,289	464,336	1.194,133	1,701	140	97.	-		11,004	114			ater
í	19	Malda	H4	478,738	488,781	986,826	2,250	97	413	7	444	1,401	-	***	***	
fi	#0	Dades	Ме	1,886,861	1440,114	2,530,976	6,100	D112	89 -	7		1.060	1-78	P9-1	<u></u>	
Deece	11	Mymentage	791	3,274,401	9,186,477	4,420,998	6,070	603	611	■ U		1,917	31	11	196	LO
	22	Faridpar	del h	1,068,898	1,032,317	2,080,710	1,710	. 148	33		l lam	1,278	5		88.1	***
	20	Bakarpanj	-	1,839,894	1,171,018	2,394,443	6,206	- 181	2	254		850	70	1.0	30	001
	94	Olikiejong	***	794,058	175,609	1,479,667	9,870	201	114	3.0		882	10		18	
hitimgong	24	Nonkhall	Hell	868,010	556,192	1,302,000	9,067	200)	789	B++	HV	441	ales :		46.	
1	16	Tippera	Phd	1,205,641	1, 162,712	9.279.484	\$,438	#19 ¹	11	29	**-	12B p	b-1	9+1	160	
{	21	Chittegoug Tquoin.	Bru	***							н	110			No	t under
Total o	ជា លេខ១	th for Bungal	*10	21,640,568	#L060.180	49,711,086	78,065	4,169	1,883	118	941	44,881	461	98	384	84
Total of correspo year.	ading	tneest of pres	dous		1++	901	88.686	4,623	815		411		whol		j	Pat .
Increa	H + 9	or discresse —	145	we	159		- 5,481	- 364	100			449				

Rumanum. The shore table is compiled from returns collected by the thans officers and submitted to the Director of Public Health by the Civil 2. The vital statistics of municipalities with a population of less than 10,000 have been included to the Director of Public Health by the Civil

CALCUTTA,

The 9th March 1922.

excluding Towns with a population of 10,000 and over in Bengal.

ANT I	ARE.			1	-		1	pag a		. #	Take	of all occurs		Total of month	correspon	ading bottom	Ho.	Districta.	
hrren.	É	100	4	a door	1	4	Obber rembire- tory diseases.	Injuria inclui	derite.	100					700T.		1		
3	Dynastery	Diarribo	l'odine.	Photomore			82	- F	Option of the last	Okher	Male."	Pegiale.	Total.	Male. I	umale.	Tetal		4	
	69	18			15		и	43		483	1,50s	1,407	8,006	1,408	1,848	1,101	1	Burdwan,	
184	8		410	١.	13	N4 ,	2	al.	,	110	1,019	877	3,880	1,190	1,114	1,364	2	Mirbhum.	,
1	46	49	1-11	١,	10	1	18	40	7	364	1,107	1,331	9,636	6,891	1,110	2,340		Bankera	
1,600	195	58	81		10	30	18	189		796	1,440	2,300	4,539	2,934	9,748	8,478	- 6	Midnepur-	
190	9)	37	,	. 1	18	15		66		- 339	1,010	1,088	3,1,16	1,914	1,113	3,397	- 1	Houghly.	
	198	68			18	10	# 1	B1	16	\$50	768	678	2,441	864	261	1,031	•	Howesh.	
181	10	J.L	_		9F /	7	91	345	- 10	* 469	9,367	1,038	4,415	1,680	1,471	5,110	7	64-Pargauss.	
1,014		447		, .		1		86		434	1,863	1,819	1,095	1,003	1,850	3,848	•	Radin.	
130	1F					FW1	14	98,		402	1,671	1,491	8,094	1,623	1,486	3,077		Marshidebed	
99	g			1	22	9		105		964	1,497	1470	2,960	1,710	1,690	3,100	1 10	Justice.	
	1	1			*		1	76	11	640	1,884	1,894	8,078	1,980	1,670	8,608	11	Khulma.	*
100		н					1	L Be	1	173	2,164	2,004	4,318	9,110	3,908	4,480	18	Bajohnhi.	
E 64		,	44		В		***	172		191	1,116	5.196	6,410	2,304	3,190	4,880	1	Dinajpur.	
491	lhi.				В	7	17	30		164	933	944	1,879	3,040	175	(3,098	1	Jaipelguri.	
200	31	١.		89			11			144	488	633	140	879	184	760	1	3 Darjosling-	1,41
3,750	1.			3	1	2	,	83	18	148	9,748	2,011	4,971	3,635	9,850	4.00	1 1	Bangpur,	
681				56	17 _b ,		- :	d a	4	100	1,460	1,895	9,781	j.,001	1,989	3,810	1	7 Bogres	
m/*					н	***	-	64	,	100	1,293	T'00P	9,701	1,400	1.191	2,50	1	R Pabea.	3/
- 06	r +==					100	1 :	2 35	P11	901	· max	, 702	1,814	Rani	171	1,40	,	D Malda-	
	i			f	9			9 71		990	,0,479	2,530	4,70	1,810	1,020	4,13		Dares.	
1,651	1			4	23	114				1,070	1,231	8,400	7,02	B 2,640	8.01	6,61	9	12 Mymetalogh	
1,56		-	8					0 .		316	2,04	1,796	B.78	2,61	2,48	6.29	18 !	Pariapur-	
1,00	:				16			4 13]- p	; BOU	3,00	6 1, MT 2	1.04	B 3,69	1,43	2 4.15	13	28 Bakurgaci-	
1,00	:		1				1.	1 8		8.7	1,19	9 1,186	9,80	h 1,85	8 1:41	8 2,86	Н	24 Chitthegong-	
1,76	1	#	•	10.7	L	-				i nda			1,41	1,49	0 1,4	0 5,0	49	25 Nonkindi.	
		4			H	100		4 . 10		443		1,320	11:10	21 , 1,84	10 L-61	4 2.3	84	96 · Tippers-	
1.08		m	,	-	.8		# 	1		400		-	į į	н		***		27 Chistagong Hi	ll Trucks
reginkr	ation.		—ı-					ت ¦ ـ		_			81.3	61	200	,,,			
20,44	1,04	14 18	94	160	576			68 1,9	80 14	9,254			-		-	_	188		
494	١	1	nà :	щ.				_		-	47,6	71 43,91	9574						
***		,		_µ	344				- -		-4,1	- 6.13	- 10,1	107	1				

Surgeons. Taken as a whole, the statement possesses a relative value, although the figures for individual distribute protectly only approximate to the scient. Sinticits as ordered in Covernment of Scoral, Municipal Department, latter No. 118San., dated the 5th February 1918.

Lodie, Education Department, latter No. 93, dated the 53th March 1918.

OHAS. A. BENTLEY.

Director of Public Health, Bengal.

Vital Statistics for the month of September 1921 of the

		, -10	TION ACC	OP 1911.	CIEMA DE	BIRTHO R	ne othero.								
Distrious	No.	Towns.	Mule.	Female.	Total.	N packer registered (encluding still-births).	Btill-born number registered.	Obolesm.	Small-pox.	Plague	Malaria.	Exterio feres.	Metalen	Retapatat Bries	Kahr-Aser.
[-	ı	Hardwan	20,627	16.094	35,931	72		***	1	***	11.1	**1	!	۵.	484
Burdwan	1	Raulgari	8,411	7,000	15,407	26				471	P89-6	190	371	B11	444
Į.	1	Ammol	13,486	8,488	91,910	43	3		718	h+-	,		9-4		
1	ı.	Baskura	13,164	11,297	12.461	18		1	491	4*1	107	110	841		711
l li						- ** :		4	İ		17	b+1			
Base level 200	Б	Vishosper	10,088	19.458	20,674	10				850			100		
i, i	6	Somewhild	9,364	1,021	18,374	11		*	Par	- Ohr	T5	1 -	41-1	***	144
Ednapur	1 7	Midnipar	17,077	16,148	22,140	Me		1	***	991	196	1	18+	411	1.84
	. 8	O'mital	6,314	6,848	12,014	34		4-4	÷.		. 3	481		-eta	141
r	9	Hooghly-Chineure.	10,817	11,000	98,010	61	1	-1	44-		- 14	.,.		849	n41
	10-	Serumpur	19,639	49.439	201078	bu bu	1					***	. 170		
ļi	13	Highra-Honsagar .	10,784	41,799	17,610	26	bel 9	2	-			141	***	****	
Rodgibly	Lit	linidyabati	,		14,110	80	_	. 1	Ì	++=	18		ļ ,	4.5	
				-h #1-7-1-	18,441	,					LO				
	13	Bhadre-wat	Meathebox is	Of BANTIPOSE			***				1	480		P71	-
1	14	Chumpdani	J	1	18.197	- 30	3	- man	+1-1	-	4-	1444			-
- G	15	Bownh	114,839	44,580	179,369	17%	96	14	3		30	B	***		***
South (16	Bally	96.917	6,177	23,394	311	94*	Sec.			16	3			-
	17	Condpur-Chitpur	20,793	17,496	48.176	76		ma-	Hen) 	8	h++	Ir-		
	ιB	Manikisla	\$1,786	23,002	\$2,767	21	. 131	8			1 86	7	ben	411	-
* 11	19	South Sabarben	17,669	13,060	W1,688	40	d		44.1	-	29	har			
,	50	Tallygan)	11,184	7.960	[8,43]	10	-	2.50		577			Bat	41.1	-
1	21	Gardon-Reach	97,065	17,480	46,205	4 44		3	d+ h		- 11	3	M t		
	92	Bades-Budgs	11,000	6,453	17,009	16		, 1	***		6	4			
ļ.	29	Hangangar	14,048	10,918	85,895	60	3	3	1	+	7	ter .	941	12	-
	96	Kamazhgii	11,148	- 6,775	14'01P	10		-	B+h	Baye	18	411	h.,		
	35	Rajput	6,743	6,846	21,407	17		-		-	10	101	991	ne .	-
M-Pargnuas C	24	South Dam-Dum	1,760	8,136	12,574	18	***	100							
	37	Barrakpur	11,897	6,944	10,201	1.0	-	141					111		1.
	100	Panibati	6,380	4.77>	11,111	19	. aga	1		971				110	
ł	99	North Bestskput	9,780	0,340	16,120	18	***			847	10		***	wjsh	
	20	Thegart	31,196	18,045	40,371	57	1		-	001	95		-		
	1 11	Garatta *	7,676	1,701	11,500		91.0	1	4+1	417	. 3				
	29	Nalbati	11,005	6,684	19,117	87	₩.		10-0	100	-	+**	-	-	
	123	Blankpara	84,709	16,676	50,414	36	819	***			6	1	10	1	,
	34	Basich st	9,617	8,614	- 18,881	38	212	gas	-	Par	1	100	mah		
-	8.6	Baduria	7,016	6,6)0	13,660	10		8/1			•	-			
Oulostra	. 36	Celoutte	607,674	300.000	995,007	1,811	130	н	1	100	99	100			
	87	Erishnaphr	11,767	11,700	23.475	20	-14	631	464		18	207	1	248	.
Modia e	38	Nadia or Wabadari	8,931	0,659	12,460	90	n=	94.1	714		12		***		
	20	Santipor	12,100	14,817	96.703	- 44		844	lite	-	19		1 198	711	1.

Towns with a population of 10,000 and over in Bengui.

rasili 3	Bearers	H BO.															*	
			#	Premaoaia.	4	Penglin-	ing tub-	Deaths from childburth.	r califor.	Total of	s]] cs.00	1 .	304	al of cor septh of year	L. LEGITA	_	la.	Town.
	Dymotery	Diagram	Informate	P	Phihlala	Other	Lojuries chading clés-	T B	Officer	Hain Fe	ensire :	Total	Ma	de. Fem	ale. To	tal.		
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9	001	.14							19	34	18		11	19	17	31	1	Anamol.
13			BH4 -				ļ		14	19	24		48	92	91	48	•	Bankura.
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	gqd -	7	***	100	1"	40.1	1	***		18	17		A10	4	10	16	- 6	Sonamokhi.
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and	1	4	140	881	-		1	1	1	7	*		18	87	98	36	9	Hooghly-Chiasura.
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			1	1	4	3	1 .	-	1 31	47			W2	88	36	00	1	Champur-Chilyars
9					10	8	17	í .	. 64	78		4	159	104	66	[8]	1	is Manihtaja.
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	4	1 0	1 -			194						10	96	84	T3		d :	gi Garden-Resob.
	17	6			a .			1 ,	-	1 31		14	н	26	18			92 Budge-Bodpe.
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_		6 .			url ,	aber			100	133		1	39	11	16			26 Bajpur.
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	P 1	1		***	a	1	1	1	244	7 11		7	38	9	10		19	II Halbath
	IT		4	R		*	1	1		3 2	2	17	49	31	31		47	23 Bhathar.
٠	1				440		L		-	16		19	31	29	10		18	16 Baderie.
	101	4	944	***	9		1	94.0			1 . 4	8	18	10				30 Calentina
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Vital Statistics for the month of September 1821 of the

		le .		ON UKDER R		Bearns 11	CONTRACTO.								
Districts.	No.	Nowas.	Male.	Female.	Total.	Number registered (excluding still-births).	Ctill-born number registered.	Cholena	Staath-pox.	Philpm	Kalaria	Ratorio forme.	Vende.	Belapating forter.	Kales & mir.
	40	Berhampar	14,802	11,041	96,148	34	1	16	-	, m	4	4	1	2	
	41	Muchidahad	4,550	6.110	19,600	90	1	I.	414		944	١	1	401	
Strukto-	43	Asimpanj	0,735	5,669	19,337	18	. 1	1	***	1	10		-	200	
	4	Kandi	0.112	8,434	19,600	39		+1-0		-	11	-	PAR	a AME	at
{	44	Jangipur	4,480	6,918	31,408	36	- m	421	1	148	11	411			94
. (48	Kimina	7,968	8,018	12,000	16	S (- 2 = 2	681		164	15	***	7 844	200	
thum	4	dutkhire	4,502	8,100	30,000	+	San San						tul	1 110	B-1
injebahl	47	Rempur-Honds	19,067	19,841	12,400	34	2	li:		191	88	_			
Hasjpar	48	Dinajpur	9,648	6,997	15.046	8	***			148	1		1117	-	
elpelymri	4.0	Jahalguti	7,647	4,918	11,765	18:	PH-6	444			10				
nrjeeling	"60	Darjeeding	15,401	7,874	19,906	90		N4	_		1	im		6	-
angpar	H	Rangpur	10,000	8,990	10,439	,19	***				п		440		
- (03	Pabea	10,000	0,416	- 19,274	70		1		115	73				
abms }	88	Elrajganj	18,394	11,6(1	24.777	41	110		n-kn		43	-		177	
	64	Buglish Basar -	2,497	6,095	14,033	25	1				9:3	-	_	150.	'
Inlitta	58	Mawabgeo j	11,123	(1,200	90,323	30	Med 1	411	٠.		11	ga.	-	1	"
	34	Dason	48,001	46,450	108,861	207	14	144		100	16	441			-
nden	82	Natayangan	18,796	0,138	27,874	lli8	1	1	464			D+1	100	100	
	68	Mymeralogh	13,400	6,000	10,060	631		1	***	4	+*4	441		41	
	140	Netrakona	8,010	6,799	18,740	34			++4		***	h	_	_	-
]]	aò i	Jamaipur	11,198	8,381	31,100	44	***		***	414	100	PM :	4-	ter.	-
propositing to {	61	Sherper	0,510	7,070	(5,59)	ſ	6	88	1		#1	71-1	-	, 1	-
	63	m	9,508	8,218		d d	-		994	***	-	*49	544		-
	43				18,024	20	4	10+	_	144	***	p==	4++	1	-
- 4	64	Bujispur	6,447	8,885	10,835	141	1	j	100		***	-	Mh	***	
	65	Tangail	6, 102	7,869	16,363	54	1	- '				***	. 94	94.7	-
eridpur {		Parldpur	8,617	6,114	19,192	*	844		746	100	1)	het	194	817	
1	06	Madarlptir	10,44B	3,824	10,078	37	4.			144	17		1007		-
abargani {	d7	Barton	16,488	0,885	29.473	181		1	444	***		146	411	1011	٠ -
	68	Pirejpur	6,130	Ned78	21,984	16				l-lin	***	PH	4-	dds li	***
bliberoug	685	Chittagong	19,570	9,067	39,764	59		1				100	421	-	P
,	26	Comilia	18,206	8,98d	23,012	14		7							
ippers	71	Brahmanbaria	11.671					1	411	441	***	***		***	-
				10,634	88,885	69	-	244	***	PHI	414	***	pith		**
į.	72	Total of month		8,035	19,717		·		274		dan .	*1*			-
		Total of correspond-	222	100	3,618,169	4,407	341	173		***	884	- 88	1	18	
		tox month of per vious year,		071		41186	375	ара	141	BA1	Fab	a++	g	***	1
		Increase + or de-			***	- 100 -	+15	(m)		Bath	***	841	907		100

CALCUTTA: The 9th March 1922.

BEMANUET. His above table is compiled from returns collected by the suncicipalities and submitted to the Director of Public Health by the Civil Surgeons and its few instances are obviously incompists.

3. The vital etablatics of municipalities with a population of lass than 10,000 have been excluded from this statement and incorporated.

3. The birth and death ratios per 1,000 per sandam have been emitted from this statement according to the Occurament of India.

4. Figures for the different diverses are not available for the corresponding munch of the previous year.



Towns with a population of 10,000 and over in Sangai.

			A 100		-	1	de de	the Carry	1		Total	PAS IIA lo	-	Tota	of corr	MARCA	ing	Ma.		20mm	
	Dynamics.	Discribuse	Tagonain.	alabases	Phylide	Daher manden tory dissesse	Injuries includ- tog ratefor.	Desthe from child black.	Ohlper no	Ж	als,	Pecasio-	Dobal.	Male	, Femi	te- To	nink				
_	Ä	A	<u> </u> A	i di			=		10	1	84	23				16	10	48	Berl	embat-	
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	444		les 5	-		-	1			1	A 1	,		16		6	15	64	Jan	atpur.	
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89		\$5	6	1	1					37	80		96	166		- 23		0 1	17 2	ingraya-uganj.	
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	s .		gq th	rad	1		-	h 84	**-			2			4		}	11	64	Tangail.	
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***		3	141		179	het h	3		PM	10	1	N .	16	30		0.0		6L	61)(adariger.	
		- 4	***	1	halb	444	3			7	1	13 2	r _J	23	99			88	87	Barleni.	
			488		***	441	***	444		1		F C		10	84		"				
					501		*10	115	4+1			В	1	4	1	1	1	*	68	Picojpur.	
	4	+44	4	4+1		567	1			:81		12	36	87	81	9	à	E3	40	Chithupoug.	
1	122		- 1	444	p01	***		apa'				1		g	3	,	1	12	20	Comilia.	
	4				,		411	vII				7	3	1				IIO	4)	Brahmanbari	
			465	414	411	***	107	1	100	11		13	L9	lid .	11	1	17	19	71		
	17	3	***				1		971		1 .	. 5	1	6 3	1		<u>-</u>	8	72	Chaudpur.	
	3		+11		330	#06	449	112	19	1,426			1,649	6,394		141					
- 1	790	424	216	122	177	100	411	417		mar.		36-6	2,577	6,831	3,304	4,2	77	L, SHB 1			
Ţ ~		***	410													-				. te	

Taken as a whole, the statement possesses a relative value, although the figures includividual towns probably only approximate to the actual is a preport to of another.

In the returns for districts so ordered in Bengal Coverageopt, Municipal Department, letter Ma. 1185au,, daied the 5th February 1918. Bidmention Departments, letter Ma. 28, dated the 28th March 1316.

CHAS. A. BENTLEY, Director of Public Health, Bengal. Statement showing the quantity of Salt In Bonded Warehouses and allost on the river Houghly on the 28th day of February 1922 and transactions during the half-month from the 18th to the 28th February 1922.

				TRANSAC 167H T	THE 28TH)	G HALF-MONTS FRURUARY 1923	PROM THE INCLUSIVE.
Description of salt.	In Sulkea Govern- ment golus.	Quantity affort.	Total.	Quantity on which duty has been paid,	Manifested quantity arrived in the port of Calcutta.	Deliveries from ship- board for consumption and for inland bonded warehouses.	Deliveries from bonded warehouses for consumption and for inland bonded warehouses,
United Kingdom —	Mds.	Mdy.	Mds.	Mds.	Mds.	Mds.	Mda,
Liverpoor and other Panga	906,000 5	68,993	876,408	161,106	58,699	21,100	85,416
Other European countries-						_	A AND
Spanish salt Hamburg and Bremen	886,996 180,688	11,976	886,996 192,808	#9,760 84,800	9,481 23,076	- 48,040 17,100	80,160 35 10,218
Samburg and Bremen	н-	hen		P P I	ы	5+4	, ні
Port Said sait	\$19,091	104	819,091	18,600	4,168	25,810	42,270
Ader and Hed Sen-	1,061,411	58,166					
Balf salt	1,001,411	00,190	1,117,577	275,450	871,659	801,660	179,483
Balif rock salt	494	***	-11	***	***	***	104
Rawayah mit		Bib w	P14	461		***	444
Mater wah salt	0 10 ,656	844	\$18,856	14,000	Late 1	***	11,800
Marcut and Persian Gulf-	,						
Musent, Lingab and Hanjam salt.			444		144	4940	
Ditto ditto	į				- · · · ·		***
rock salt.	***		444		171	***	875
Beitish India -				-			
Bombay sait				-			
Madras salt	***	100	444	**-	454	***	944
Coconada salt	400	2,076	2,076	5,0004	6,000	8,924	444
Visagapatam salt	400	413		177		0,044	-
Tuticorin salt	***	92,390	92,290	141,000	141,000	75,408	***
Total	8,225,267	280,880	8,456,097	687,300	614,682	485,442	256,798

" Duty on this quantity was paid at Cocounds.

Written off during the half-month-						Mds.
Wastege in Sulkes golas Abandozed and destroyed	***	400	***	160	444	3,477
In trapait-	***	74.		44+	tel d	196
Aden sait		448	517	100	***	6,815

F. J. KARAKA,

Assistant Collector of Customs for Imports."

CALCUTTA CUSTOM HOUSE, the 7th March 1922.

IRRIGATION DEPARTMENT, BENGALP

Abstract, Statement showing the approximate volume of Traffic and the Tollage on Canals in Bengal classed as Major Works and Minor Works and Navigation for the month of November 1921, as compared with the corresponding month of the previous year.

				10014	ia.		
		WEIGHT O	CARGO.	RAI	71.	TOLLA	ež.
Quantity.		listing the	To end of the month.	During the	To end of the month.	During the month.	To ead of the month.
	Ì	Tons.	Tons.	No.	No.	Ru.	Ra.
L.—Möjer Works. Idenpore Canal lijili Tidai	***	2,675 3,517	32,721 51,699	4,212 1,450	14,717 2,828	2,326 2,325	24,482 46,226
Total		6,190	84.420	5,662	17,545	5,251	70,708
IIMinor Works and Nasigation.							
lakutta and Eastern Canale Colly's Nala		42,995 15,243 125,974	275,742 132,568 868,579	51 12 3,993	1,018 155,799 11,744	28,992 5,167 38,645	181,222 40,454 2,09,021
Total	144	184,212	1,271,689	4,056	168,561	67,804	4,24,897
Magraint Channels Orises Coast Canal Nadia Rivers		6,580 2,252 3,487	21,797	1,000 1,269 29,100	30,817	2,607 948 1,359	12,205 7,70 8,53
GRAND TOTAL	y+1	196,481	1,864,781	36,420	682,358	72,718	4,52,93

				[.090-9]	le _		
		Watert o	T OARGO.	SA	PT6.	Tell	483-
Countille		During the month.	To end of the month.	During the month.	To end of the month.	During the paperb.	To ead of the month.
		Tons.	Tous.	No.	No.	Rs.	Ra.
I.—Major Works. Miduapore Canal High Tidal		8,108 4,046	96,897 49,182	7,625 520	19,650	2,848 8,662	25,480 47,276
Hijik Tidal Total	110	7,154	86,019	8,045	21,328	6,210	72,706
II.—Minor Works and Navigation.							
Caloutta and Eastern Canals Tolty's Asta Madaripur Bheel	***	40,745 14,760 189,805	272,989 185,706 1,047,888	92 16,380 75,068	118,037	26,684 4,562 34,778	1,76,837 41,719 2,41,139
Potei	***	195,310	1,456,583	21,530	184,087	66,089	4,59,695
Magrahat Channels Orissa Coast Canal Nadia Rivers	***	6,795 2,377 5,110	21,240	1,406 523 127,410	10,508	2,080 911 1,670	8,104
- GBAND TOTAL	***	000 FD0		150,86	714,242	70,650	4,87,506

. T. C. BHATTACHARYA,

Asst. Secretary to the Government of Bengal.

CALCUTTA, The 9th March 1922.

GOVERNMENT OF BENGAL, IRRIGATION DEPARTMENT.

Approximate return of traffic on the Circular and Eastern Canala.

for the week ending Saturday, the 4th March 1922, as compared
with the corresponding week of the previous year.

				THE MARCH 1985.			тріми Затопіда и Маноп 1981,	T, THE
Mater	e of catigo.		Muttabus of books.	Weight of obcars.	Tollage.	Number of bosts.	Waterboot engree	Tolinge.
				M du.	Re		Mds.	Be,
Rice and paddy Fute Firewood Other articles	- ego - ego - ego - ego - ego	#41 #41	775 52 1,023	243,720 18,750° 59,450 314,940	4,087 283 971 8,572	559 96 48 720	172,552 59,025† 22,375 164,400	2,865 568 332 2,132
	Total	441	1,985	636,860	8,913	1,418	418,352	5,897
Empty boats as	d rafts	***	605	411	2,356	612	. ***	1,662
GRAND '	GRAND TOTAL		2,540	686,860	11,269	2,030	418,352	7,559

* Weight by canni measurement ... 19.000 † Ditte dikto ... 19.00

T. C. BRATTACHARJI,

Assistant Secretary to the Government of Bengal.

CALCUTTA, The 10th March 1922,

CORPORATION OF CALCUTTA.

NOTICE.

In compliance with the provisions of section 570 of the Calcutta Municipal Act, 1899, it is hereby notified for general information that the following rule framed by the Corporation of Calcutta, under section 73 (b) of the Calcutta Municipal Act, has been sanctioned by the Government of Bengal in their letter No. 1166L.S.-G., dated the 1st March 1922.

J. N. GUPTA, Chairman of the Corporation.

CENTRAL MUNICIPAL OFFICE, the 9th March 1922.

Rule framed by the Corporation of Calcutta :-

- (1) Any Municipal Officer or servant, who has contributed compulsory subscriptions to the Provident Fund and has rendered continuous good service for not less than fifteen years, shall, on retirement, receive in addition to the sum payable out of the Provident Fund, a gratuity at the rate of half a month's pay for each completed year of service rendered by such officer or servant, subject to a maximum of fifteen months' pay. The amount of the gratuity shall be calculated on the pay drawn by him at the time of retirement.
 - (2) For the purpose of this rule-
- (a) "retirement" means retirement under the age limit, subject to any duly sanctioned extension of service, or on account of physical unfitness, illness or the abolition of an appointment or an completion of the terms of an appointment, or for any other reason considered adequate by the General Committee. It also means voluntary retirement or resignation of the service with the consent and approval of the authority empowered to appoint the officer or servant;

(b) any authorised leave of absence, whether with or without allowances, or an overstayal for sufficient reasons of any leave, does not constitute an interruption of continuous service:

(c) "pay" includes a personal allowance or such other allowances as are an integral portion of substantive pay, as distinguished from an acting allowance or an allowance for a specific purpose, e.g., conveyance allowance.

IMPROVEMENT TRUST.

Notice under section 43 of Bengal Act V of 1911.

Scheme No, XXII – Nebutola Lane Widening.

(St. James Square to Bowbazar Street).

The Board of Trustees for the Improvement of Calcutta hereby give notice that a Street Scheme, viz., Scheme No. XXII (Nebutola Lane Widening; St. James Square to Bowbazar Street) has been framed for the area bounded as follows:

On the North-From a point on Bowbazar Street at the north-western corner of premises No. 119, Bowbazar Street running eastwards along the southern edge of Bowbazar Street to a point on the southern edge of Bowbazar Street about 50 feet from the north-eastern corner of premises Nos. 124 and 124-1, Bowbazar Street.

On the East—From this point southwards in a line with the eastern edge of St. James Square to the south-western corner of 8, St. James Square.

On the South-From this point westwards along the northern edge of St. James Square South and then across Nebutala Lane along the northern edge of Hidaram Banerjee Lane to the south-western corner of premises No. 41-1, Hidaram Banerjee Lane.

On the West-From this point northwards in a straight line to a point on the north-western corner of premises No. 119, Bowbazar Street whence at first started.

Particulars of the scheme, a map of the area comprised in the scheme and a statement of the land which it is proposed to acquire may be inspected at the office of the Trust 5, Clive Street, on week days between the hours of 11 AM and 4 P.M. and on Saturdays between 11 A.M. and 2 P.M.

Copies of the above documents will be delivered to the applicants on

payment of the following fees :-

Rs. A. P. 0 Particulars of the Scheme Map of the area Statement of land which it is proposed to acquire 0

Objections to the Scheme will be received upto May 15th 1922.

C. H. BOMPAS Chairman.

CALCUTTA, The 3rd February 1922.

CALCUTTA IMPROVEMENT TRUST.

Notice under section 63 (5) of Bengal Act V of 1911 as amended by Bengal Act III of 1915.

NOTICE is hereby given that the Board of Trustees for the Improvement of Calcutta has applied to the Local Government for sanction to the plan of the proposed Public Street No. XLII (Chandney Chowk Street widening), which was originally published in the issue of the Culcutta Gazette of 20th July 1921.

C. H. Bompas, Chairman. b.

5, CLIVE STREET, CALCUTTA, the 10th Morch 1922.



The Calcutta Gazette

WEDNESDAY, MARCH 22, 1922.

SUPPLEMENT.

OFFICIAL PAPERS.

[Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of five rupees per annum if delivered in Culcutta, or seven rupees and eight annas if sent by post.]

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APPOINTMENT OF A LABOUR INTELLIGENCE OFFICER FOR BENGAL.

GOVERNMENT OF BENGAL

COMMERCE DEPARTMENT.

Commerce.

CALCUTTA, THE 15TH MARCH 1922.

RESOLUTION-No. 1163 Com.

As a result of the recommendations of the Indian Industrial Commission and in view of the complex labour situation which arose after the war,

398 SUPPLEMENT TO THE CALGUTTA GAZETTE' MAR. 22, 1912.

the Government of Bengal, after consultation with the Government of India, created, with effect from the 1st July 1920, a temporary post of Industrial Intelligence Officer. This officer's duty was in general to collect and make available for the public detailed information on matters connected with the development of industry, and in particular to investigate and report on labour conditions and the facts and causes of labour disturbances. The term for which this post was created expired on the 28th February 1922. The attention of the Industrial Intelligence Officer during the last 18 months has been occupied almost entirely with the wide-spread unrest in the labour world. India's international obligations as a member of the League of Nations, and in particular her active participation in the International Labour Conferences involve the systematic collection of information regarding her labour problems for supply, both to the International Labour Office itself and to the delegates of India to the Conferences. Moreover, it is the request of the Secretary of State that labour disturbances in India should be accurately and promptly reported to him for the information of Parliament. Further in paragraph 19 of their report, the Committee on Industrial Unrest appointed by this Government in 1921, laid great stress on the importance, if Government was to maintain a proper watch over the industrial situation, of its having full and early information about all forms of labour troubles. In view of these considerations which indicate the necessity for a separate organisation in Bengal to deal properly with labour matters and to keep Government informed regarding them, the Governor in Council has decided to create directly under this Government a post of Labour Intelligence Officer temporarily for a wo years in the first instance. Mr. R. N. Gilchrist of the Indian Educational Service has been appointed to this poet with effect from the 6th March 1922.

2. The collection of industrial intelligence including information connected with the development of industries will, for the present, be undertaken by the Director of Industries, to whom all references connected with this subject should be addressed.

ORDER.—Ordered that this resolution be published in the Calcutta Gazette for general information and copies forwarded to the officers concerned.

By order of the Governor in Council,

H. E. SPRY,

Secretary to the Government of Bengal (offg.).

ENQUIRY INTO THE SALANGA HÂT SHOOTING INCIDENT, PABNA, ON THE 27TH JANUARY 1922.

GOVERNMENT OF BENGAL

POLITICAL DEPARTMENT.

political.

CALCUTTA, THE 14TH MARCH 1922.

RESOLUTION-No. 4599P.

Read-

The Report of the Magisterial enquiry into the Salanga Hat shooting incident Pabna, on the 27th January 1922.

On the 27th January 1922 an attack was made on a force of armed police at Salanga Hat in the district of Pabna, and the police opened fire with the result that six persons were killed and 31 wounded. A magisterial enquiry was started at once, and a report was received by Government on the 18th.

February. As the police investigation into the riot case has now been closed, and no proceedings are pending against any individual, the Magistrate's

report is published for general information.

The reason for the outbreak is clearly shown to be the turbulent The reason for the outbreak is clearly shown to be the turbulent spirit aroused in the neighbourhood by the propaganda carried on under the guise of the non-co-operation movement by irresponsible bands of volunteers, encouraged by previous successful attempts to resist the forces of law and order. The immediate cause of the attack on the police of law and order. The immediate cause of the attack on the police force was the arrest of certain volunteers who were intimidating the shopkeepers and preventing the public generally from having access to the shops. His Excellency in Council is of opinion that the orideness shows that the growd was in a dangerous mood, and determined to evidence shows that the crowd was in a dangerous mood and determined to rescue the prisoners. The District Magistrate and the Superintendent of Police who were present in person showed commendable patience in dealing with the mob, and the orders to fire were only given when the police force was clearly in danger. His Excellency in Council agrees with the Commissioner that the orders to fire were justified and inevitable in the very difficult circumstances in which the district officials were placed. The number of shots fired was large, but the attack on the police was of a persistent and determined character. However had the firing been more properly regulated from the outset it is possible that the dispersal of the mob could have been effected earlier and at less expenditure of ammunition.

The orders of Government prohibit the firing of blank ammunition in dealing with riots; though the desire of the officers to avoid bloodshed was natural, this direction is based on long experience, and in the present case there is evidence that the risk which is always to be apprehended was actually incurred, namely, that the mob became the more defiant and reckless by seeng that the earlier shots were ineffective.

The order to cease fire was given as soon as the mob showed signs of dispersing, and every effort was made to attend to the wounded. His Excellency in Council regrets exceedingly that this loss of life ensued, but he considers that the District Magistrate took the only action possible, and the responsibility for the deaths of these six man rests with those who

by their propaganda inflamed the violence of the crowd.

ORDERED that this resolution together with the magisterial report be published for general information.

By order of the Governor in Council,

H. L. STEPHENSON, Chief Secretary to the Government of Bengal.

Report of the Magisterial enquiry into the occurrence at Salanga Hat, police station Raigan], subdivision Sirajgan], district Pabna, on the 27th January 1922.

I opened the enquiry at Salanga Hat on the 28th January, and closed it at Pabna on the 12th February. The opening of the enquiry was proclaimed by beat of drum at Salanga and neighbouring villages, inviting all who had any knowledge of the occurrence to appear and give evidence. Thirty-six witnesses appeared before me and were examined by me at Salanga, 10 at Sirajganj including the Deputy Superintendent of Police and Assistant Surgeon and the rest at Pabna and Ullapam. Altogher 78 witnesses have been examined. On the day the enquiry was instituted, Babu Annada Prasad Thakur, a prominent mukhtear of Sirajganj appeared before me at Salanga and said he was watching my enquiry on behalf of the public and took full notes of the depositions. He was also present at Sirajganj and Ullapara, but was not present at Pabna. Of the 78 witnesses examined, 39 are public servants, and of the witnesses who were not in Government employ, only seven witnesses gave evidence on material points. This is due to two reasons. First, that the men who knew most about the occurrence were actually concerned in the occurrence, and could not give evidence without incriminating themselves. Second, that some of the men who might have given evidence were prevented by the non-co-operators from appearing before me.

2. Before giving an account of the present occurrence, I think I should briefly refer to the recent growth of a dangerous spirit of lawlessness and a systematic campaign of violence, intimidation and destruction prevailing in the Sirajganj subdivision, as illustrated by the following incidents:—

(1) The first incident occurred at Kalibari, police-station Belkuchi, on the 5th January 1922, when the Sub-Inspector of Belkuchi attended a non-co-operation meeting with one constable. After some speeches were made, the enrolment of volunteers commenced. The Sub-Inspector noted the names of the local volunteers. There was a volunteer from Rangpur who refused to give his name and tauntingly said his name was volunteer and his home was jailkhana. All the volunteers shouted "Bande Mataram" and some of the people present shouted "beat sala police, mar sala police." Fearing an assault, the Sub-Inspector and his constable ran off. They were chased. The constable was overtaken and his pagare torn off. The Sub-Inspector took shelter in the compound of a public woman. The mob chased him and surrounded the neighbouring house imagining that he had concealed himself in it and began to force open the door. In the interval the Sub-Inspector escaped to a cane bush and concealed himself till nightfail. He came out of his concealment at night and returned safely to the police-station escorted by some policemen who had come to rescue him. A case under sections 147 and 353, I.P.C., has been instituted. (Exhibit 8.)

police-station escorted by some policemen who had come to rescue him. A case under sections 147 and 353, I.P.C., has been instituted. (Exhibit 8.)

(2) The second occurrence took place at Chandaikona in police-station laiganj which is about 13 miles from Salanga. At 4 P.M. on the 21st January the Sub-Inspector of Raiganj found three volunteers picketing the excise shops there. He had orders from the Subdivisional Officer, Sirajganj, to arrest volunteers picketing excise shops. He arrested the three volunteers on their refusing to give their names and addresses. Thereupon the attitude of the hat people became threatening and the Sub-Inspector manaded the three prisoners and began to remove them. The bazar people then began to shout and formed up behind the officer in charge and his men. As the crowd started to push right on to them, the Sub-Inspector ordered his three constables to fall back and check the advancing crowd. As soon as they did so, the crowd managed to separate the constables and began to beat them and pelt them with clods of earth. The Sub-Inspector thereupon ordered them to load their rifles. He himself had one and loaded it. On hearing the order to load the crowd immediately jumped on the constables, threw them down and belaboured them. One of their rifles was snatched away. The Sub-Inspector started to retire towards the Chandaikona High school pointing his rifle at the crowd and threatening to fire if they come nearer him. At this point the Head Master of the school appeared and succeeded in getting the Sub-Inspector and the three prisoners into the school. The crowd numbering about 2,000 surrounded the school and pelted the Sub-Inspector with clods, one of which lamed him. They domanded the release of the prisoners. One of the constables had the key of the handcuffs. The key was brought and

the prisoner released. The Sub-Inspector was helpless. The mob insisted on the Sub-Inspector taking off his uniform and promising to resign. In dear of his life, he was compelled to do so. At this stage the news went round that the Excise Sub-Inspector had arrived. The mob decided to have his blood. Part of the mob went off; failing to find the Excise Sub-Inspector, they wrecked the liquor shop and looted the ganja and opium shops of about Rs. 200 worth of stuff and broke up the shops. Three cases under sections 147, 353, 380 and 224, I. P. G., have been instituted. (Exhibits 5, 6)

(3) At 12 noon on the 28th January 1922, the Sub-Inspector of Kazipur and 7). with some constables, daffadars and chankidars had gone to the village of Fuljore to investigate a fish-looting case and to arrest the offenders. There they came to know that the accused at the instigation of the nonco-operators had decided that they would neither obey the police and the Magistrate nor the orders of the present Government and that if the police came to arrest them they would be taught a lesson. Notwithstanding this threat, the Sub-Inspector proceeded to arrest the accused. Seeing one of the accused Amanat Sarkar running off they chased him to the house of one Nazar Ali Kabiraj. Many people assembled at this house. The Sub-Inspector ordered his men to surround the house. Thereupon Nazar Ali began to abuse the Sub-Inspector and shouted "beat the salas." A duo was hurled at the Sub-Inspector aiming at his head. The Sub-Inspector was on horse-back. The dao passed by his head and dropped behind him. A daffadar seized it but was severely malled and the duo was snatched away from him. The Sub-Inspector and his men were surrounded. The villagers who were armed with clubs threatend to kill them if they attempted to arrest the accused. They were stoned. They then cried for help. A village headman came and interfered and saved the life of the Sub-Inspector and his men. A case under sections 147, 342, 225 and 353, I. P. C., has been invitated. (Publish 10)

instituted. (Exhibit 10.)

(4) On the 26th January 1922, the flag of one Ram Karam Pandey, a surveyor of the Traverse Survey Party of Sirajganj, was forcibly taken away at Bilbagdom and when he remonstrated he was abused by the villagers and told to leave the place, otherwise he would be killed. He was reminded of what had happended to the Bogra Settlement Officer (Mr. D. MacPherson) and the Sub-Inspector of Raiganj at Chandaikona. The surveyor and his party had to leave the village ignominiously. A case under section 147, I. P. C., has been instituted. (Exhibit 11.)

1. P. C., has been instituted. (Exhibit II.)

(5) About the 4th January 1922, Rev. T. C. Kelly of the Australian Baptist Mission, Sirajganj, was opposed by an excited crowd at Beikuchi and forbidden to work in the hat. A volunteer snatched away a book (scripture) from a purchaser and tore it to pieces. When Mr. Kelly remonstrated be showed a defiant attitude. The volunteers followed him wherever he went and were bent on causing a disturbance. On being informed that a plot was being formed to do him serious bodily harm, he was forced to leave the place with his preachers.

Again on the 20th January 1922 Mr. Kelly visited the Salanga Hat with two Indian preachers as was his custom for many years. On his going through the cattle yard, a crowd surrounded him and demanded to know through the cattle yard, a crowd surrounded him and demanded to know leave the place with his preachers. the reason for his presence at the hat. A man was excitedly asking him questions about his work in the hat and waived his fist in his face. He was forced to retire. On the following Monday, the 23rd January, when his two proachers went to the hat, they met with strong opposition from volunteers, who egged the crowd on to oppose their presence. They were threatened with bodily harm. So they retired quickly and quietly. This opposition and intimidation by the volunteers and the mob is attributed by

Mr. Kelly to intense racial feeling.

(6) The evidence of excise vendors Gopal Chandra Bhattacherja and Bhawani Prasad Guin will-show how the volunteers picketed excise shops, terrified the vendors and forcibly turned away the customers. As mentioned above, the excise shops at Chandaikona were wrecked and property valued at Rs. 200 looted a week before the present occurrence. The looting of the excise shop at Salanga was also in contemplation on the date of the

3. Salanga Hat is in police-station Raigan, and 16 miles north-west of the town of Sirajgan. The people of the village and its neighbourhood. are notorious for turbulence. During the agitation in connection with the Partition of Bengal and the outbreak of violence in certain parts of the province, the Salanga Hat was looted by the mob. The disturbance took 7402

place on the Lin May 1907. Some hucksters' stalls and nine foreign cloth shops of Marwaris were looted. The articles plundered were foreign salt and cloth. The total value of the property lost was estimated at Rs. 7,500. Thirty-six persons were tried and 31 convicted under sections 147 and 379, 1.P.C., and sentenced to various terms of imprisonment. Salanga and its neighbour-bood being in a disturbed state an additional police force was quartered there for a period for one year (vide Government notification No. 4052), dated the 19th September 1907, published in the Eastern Bengal and Assam Gazette of the 25th September 1907, at page 4025 of Part II). A detachment of Gurkhas was stationed there to maintain peace and order. The outbreak of disturbance was attributed to the preachings of some local Mahomedan leaders of Sirajganj. The present disorder is doubtless due to the propaganda of the uneducated and unscrupulous volunteers of the non-cooperation party amongst the ignorant and excitable masses.

4. On the 24th January 1922, Mr. O Sullivan, Deputy Inspector-General of Police, Rajshahi Range, came to Pabna when the difficult situation at Sirajganj was discussed. It was decided to have a route march of a contingent of the armed force through the affected parts of the Sirajganj subdivision and to start it from Chandaikona Hat on the 27th January 1922

the dute of the present occurrence.

5. From the evidence adduced before me and from what I saw with my

own eyes, I believe what occurred was as follows.

On the 27th January 1922 at about 4 P.M., the District Magistrate and the Superintendent of Police arrived at the Salanga Inspection Bungalow. They met the Deputy Superintendent of Police of Sirajganj, the Sub-Inspector of Ullapara and a detachment of the District Special Armed Force consisting of three head-constables and 24 constables. From the inspection consisting of three head-constables and 24 constables. I consisting of three head-constables and 24 constables. Let use they bungalow, the party proceeded to the Salanga Hat and when they came near bungalow, the party proceeded to the Salanga Hat and when they came near bungalow, the party proceeded to the Salanga Hat and when they came near bungalow. the cloth shops, some volunteers were found picketing there. Here some hat people complained to the District Magistrate against the intimidation and interference with sale of foreign cloth by some volunteers headed by one Anath Ray of Salanga. Some volunteers were found there with badges and Gandhi caps on. The District Magistrate ordered their arrest. The Deputy Superintendent of Police arrested two of them and made them over to some constables near him. Here some people further informed the party that more vigorous picketing was going on near the excise shop, whereupon they proceeded towards it with the arrested volunteers. The party found a batch of volunteers picketing the shop. Three or four of them were also arrested. After their arrest, one of them shouted, "Allah Ho Akbar, Bande Mataram." Thereupon there was a howling and shouting of the whole assembly. About 2,000 people then rushed towards the party and surrounded them shouting, "we will not allow the volunteers to be taken away, catch them, beat them." Their attitude was threatening. The District Magistrate, Superintendent of Police and the Deputy Superintendent of Police endeavoured to reason with and quiet them but to no effect. The armed force also tried to disperse the crowd but were equally unsuccessful. Thereupon the Superintendent and the Deputy Superintendent of Police warned them that if they would not disperse they would be fired upon. At this time the fringe of the crowd surrounded the Deputy Superintendent of Police and he pushed them behind. Thereupon his hat was knocked off by one of the rioters and another man knocked him senseless by a lathi blow on his head. He began to bleed profusely. He was again hit on his left ring finger. The Superintendent of Police ran to his assistance followed by the Deputy Superintendent of Police's orderly Ramdhari Singh, Chattoo syce and constable Kishan Behari Tewari. The Superintendent of Police was given a lathi blow on the back. Ramdhari Singh was similarly assaulted. Chattoo syce was dealt a lathi blow on the head. Kishen Behari Singh was hit on his left palm by a pointed bamboo when he attempted to ward off a blow aimed at his head. The murderous character of the assault on the Deputy Superintendent of Police will be evident from the fact that four persons were assaulted and injured in attempting to rescue him. He was, however, rescued and removed to the excise shop in an unconscious condition. The crowd began to press upon the police and stone them from the north, east and west. They were ordered to retire towards the excise shop and form up. afforded them some protection. The assembly having become hostile and riotous their object being to overpower the police and rescue the volunteers, it became the duty of the police under section 128 C. P. C., to arrest the rioters and to disperse the crowd by force. The dispersal was absolutely necessary for their personal safety. But as the former course was

impossible in view of the numerical strength of the riotal, they were commanded to disperse at once, otherwise they would be fired upon and dispersed. But the only response was a voiley of clods, stones and pegs and pointed bamboos. The District Magistrate was twice hit on his hat with clods while ordering the mob to disperse. With a view to frighten away the crowd, the order to fire blank was given. The mob at first showed gigns of retreat. But suddenly one of the volunteers should out "blank they were signs of retreat. But suddenly one of the volunteers shouled out "blank fire, this is nothing" and incited the mob to violence. Thereupon the rioters rushed forward and began to shout that it was nothing; and volleys of missiles continued to be poured upon the police force. Most of the armed force-men were hit with stones and some injured. The attitude of the mob became still more aggressive. Buckshot was fired. One of the the mob became still more aggressive. Buckshot was fired. One of the wounded volunteers Mafizuddi Shekh of Rajshahi had managed to escape from the place of confinement as the constable, told off to guard him had from the place of confinement as the constable told off to guard him had to fall in with the rest. This man joined the rioters and was hit on the leg by a buckshot. He dangled his leg in the air and excited the mob saying. "I have not been thurt, there is nothing in the shot, you go on beating the salas." "You brother, you see how I am hit and my blood dropping." Thereupon the mob grew more infariated and attempted to rush and overwhelm the force. Thousands of stones, clods, pieces of bamboos were then showered upon them. As a last resort ball cartridges were ordered to be fired. When three or four persons were knocked down the crowd began to disperse and the order to "cease fire" was given. In all 93 rounds of blank, 49 rounds of buckshot and 35 rounds of ball were fired. From the above it would be quite clear that the police were forced fired. From the above it would be quite clear that the police were forced to fire in self-defence. It would be observed that rule 180 (IX), Police Regulations, Bengal, Part III, which prohibits blank fire was violated. This was done only to avoid bloodshed.

7. A rough plan of the place of occurrence is annexed to this report. (Exhibit 2.) The place where the armed force were drawn up, the direction from which missiles were hurled at them, the direction in which they fired and the places where the dead and wounded were found have all been shown in it. It would appear that they fired in the direction from which the missiles were coming and there are no good grounds for supposing that the firing was indiscriminate. It should, however, be mentioned that a case under section 147, C. P. C. and 353, I. P. C., has been instituted against the

rioters which is now under police investigation.

8 Four witnesses who were apparently hostile said that the armed constables had assaulted the crowd or slapped a volunteer. This is not supported by any of the more reliable witnesses. It is also improbable in itself as the constables were under the eye of their superior officers. It is not a fact as has been alleged in some quarters that some cattle were killed.

9. The number of casualties on the spot was four dead and six wounded. A careful search was made for wounded persons but none else was found. A local medical practitioner, Amulya Charan Ray, was called and he rendered first aid to the wounded. He was also requested by the District Magistrate to accompany the injured persons to Sirajganj on payment of proper fees, but he refused to go on the ground of his wife's illness. Considerable difficulty was experienced in securing carts for them. Eventually four carts were secured and the dead and wounded taken to the Sirajganj hospital. One of the wounded died on the way to the hospital. It should, however, be stated that two wounded men were carried in a cart along with a dead body, which was, however, separated from them by the carter who sat between them. The injured persons were facing towards the back of the cart while the corpse was placed between the carter and the bullock. This was unavoidable in a difficult situation. The wounded men were provided with as much straw as could be had on the spot. Every facility was given to the friends and relatives of the wounded to help them.

10. Next morning, the people were informed by beat of dram to produce any wounded or dead person either before the District Magistrate at Salanga camp or to take them to the Sirajganj hospital at the expense of the Government. A dead body was produced before the District Magistrate. As no conveyance could in spite of all efforts be got to take the body to Sirajganj, it was made over to the relatives. He had a gunshot wound in the lower part of the body. This injury was alleged to be a bayonet wound. but on turning the body over it was discovered that a ball was lodged on the other side of the body opposite the wound which clearly indicated that it was a guashot wound. No injured person, however, appeared before the District Magistrate, although he halted at Salanga for three days after the

LEMENT TO THE CALCUTTA GAZETTE, MAR. 22, 1922.

occurence. Swas said that they had kept away out of fear but they were assured that no harm would be done nor any charge laid against them. Still none appeared. For three days the volunteers moved from village to village and collected 18 wounded persons at the Salanga Congress office and placed them under the treatment of Dr. Annada Gobinda Chakrabarti, who was deputed there by the Sirajganj Congress Committee. Sub-Inspector Dinesh Chandra Ray of Raiganj was deputed to record their names and nature of injuries and also to send them to the Sirajganj hospital. They gave their names and showed their injuries to the Sub-Inspector, but all but one absolutely refused to go to Sirajganj. Subsequently the District Magistrate and the Superintendent of Police visited and requested them to go to the Sirajganj hospital where they would be properly housed, fed and treated. At first four or five of them had consented but eventually only two agreed and were taken to the hospital. The compounder of the Taras Charitable Dispensary was then brought to Salanga and he has been attending to those who had refused to go to Sirajganj. Their injuries were slight. In all nine injured persons came to the Sirajganj hospital for treatment. From the evidence of Dr. A. G. Chakrabarti it would appear that 22 persons were examined by him. Thus the total casualties are six dead and 31 wounded, of whom only four were seriously injured. Among the dead, one was a Hindu and the rest Mahomedans. All were adults.

11. Names and antecedents of the dead were ascertained on the spot

11. Names and antecedents of the dead were ascertained on the spot immediately after the occurence. Among them there were two registered criminals whose bodies were found in the front rank of the rioters which would show that the disorderly element of society had taken a prominent

part in the riot.

12. The loss of human life is extremely regretable but from the above account it would appear that volunteers were primarily responsible for it. The police were placed in such a critical and dangerous position that they had no other alternative but to fire upon the mob to extricate themselves from it. Had this course not been adopted they would have been overwhelmed and possibly wiped out. Judging from the past conduct of the people of Salanga and from what had happened at the neighbouring hat at Chandaikona week before, it would also appear probable that the excise and foreign cloth shops would have been looted, as the volunteers were arrested for picketing them.

RAMANI MOHAN DAS, District Magistrate.

PABNA,

The 14th February 1922

MONTHLY WEATHER AND CROP REPORT OF BENGAL FOR FEBRUARY 1922.

- 1. Character of the Season.—Excepting in the first week of the month when there were scattered showers in many parts of the province, the rest of the month was dry. The usual rainfall statement is appended.
- ii. Progress of Agricultural Operations.—Harvesting of potatoes and oil. seed crops continued. Rain was badly meded for the growth of standing crops and for the cultivation of land for jute and other autumn crops.
- III. State of Standing Crops.—The condition of standing crops was reported to be only fair.
- IV. Prospects and Probable Outturn.—The outturn of winter rice was estimated to be normal. Owing to prolonged drought the prospects of standing crops are not satisfactory.
 - v. Damage of Standing Grops.—Standing crops have been suffering from continuous drought which is likely to cause some damage.
- vi. Condition of Agricultural Stock.—The condition of live-stock was generally fair. Stray cases of cattle disease were reported from parts of Nadia, Darjeeling, Bankura, Rangpur and Cooch Behar.
- VII. Failure of Pasturage and Fadder.—No scarcity of fodder was reported from any part of the province.
- vill. Prices of Food-grains.—During the second fortnight of the month under review, the prices of common rice rose in three districts, fell in eight and remained stationary in the rest. The prices varied from 9% seers per rupes in Cooch Behar to 5% seers in Darjeeling.
- 18. Condition of Agricultural People.—The condition of agricultural population throughout the whole province was generally fair.

G. EVANS,
Director of Agriculture, Bengal.

DAGGA, the 18th March 1922.

Statement showing the normal and actual rainfall in each district during February 1922,

Division.	District.		Normal district ratained for the menth of Pobenary 1923.	Actual district related for the month of February 1923.	Veriation from the normal.	Distalon.	District		Normal district ratefall for the morth of February 1912	Actual district ratiful for the month of Hebruary 1922.	Variation to normal
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	Dirbbuta	Fed		0720	1 - 0.84		Bakarganj		1-18	24.11	- 1-16
Bardwan	Banksra	red		h,	-1-83				0100	- N31	- 0'01
puto ma	. Mikimpore	erl h		0.04	-1-18		Chittagoom		1106	0.00	- 1:05
	Hoogbly	471	1:93	NII		Obitherons	Tipperh	877	1.04	NII	- 1.00
	i Howesh	11.1	1,91	1 411			Hoakhall	28401	1	NIL.	- 0.04
	(Rajahahi	111	0.71	0-09	-0"59		Chittagong Tracta	SE MI	1		
	Dinajpur	110	0.75	0.11	- 0'80				0.71	0-03	~ 0188
Rajnhahl	Jalpaiguri	p=-	0115	0.01	- 0194		Cooch Behar	ha-	0766	0.23	- 0144
	Darjeeling	8.1	0-99	0.00	- 0*94		Tripura State		!	L	1

IRRIGATION DEPART

Statement showing heights over mean sen-level and low water in the January 1922, and the highest reading of each gauge over

		5.08.	100	2011 2	7197-	ATA THE	1	1 1 1 1 1 1	The state of	R	IVER GAR	0 10.	
Dete,		Zero	Miraspu of guege	17. 908:23 ft, >	Zero	onerns, of grage 190 ft.	Zero	Buxar. Zero of gauge 187:54 ft.		apore. Of wauge	Monghyr. Zero of fauge is at mean sea level.		
		Distance In rolles.	Prem Allaha- bad, '66		From Prom Allaha- Miranpur, bad, 184. 48.		From Benneed, 90,		From Honores, 177.	From Burne, 87.	From Benaros, 387.	Prom Dinapore, 110.	
4747		Highest gauge reading.		and September 1916, 206-87.		3nd September 1916. 944'80.		ard and 4th September 1916.		6th September 1861. 169'78.		amber 1901. 25'10.	
		Lowest starge reading.	28th June 1897. 287'20.		leb May 1877. 189'80.		10th to 14th May 1914. 189'20.		186-18.		20th April to 5th May 121d. 94'59.		
			Height over nero of gange,	Height over mean	Height below nero of gauge.	Haight over these sec-level.	Height over sero of gauge.	Height over mean sea-level.	Height over nero of pauge.	Height over mean sea-level.	Height over zero of gauge.	Height over manu son-lovel.	
		2	-1	3	6	- 1	7	В	. 9	. 10	-11	19	
Int			12.71	218-93	144	195.38	4.08	171.68	7.60	141.53	101-60	101:60	
2nd	149	17.7	12.67	218-89	1.50	195:30	4.00	171-55	7 50	141.73	101 60	Take to	
3rd	A 800	240	12.62	218-84	1.58	195-22	3-92	171:47	7:30	141.53	101:50	101-50	
46h		111	12.08	218.80	1.58	195 22	3.92	171.47	7:30	141.53	101'40	101.40	
5th	***	194	12:54	218.76	1-67	195-13	3.83	171.38	7.80	141.53	101.80	101 30	
6th		754	12:46	218.68	1.67	195'13	3.83	171'38	7 60	141.43	101.80	101.30	
7th	400		12:42	218.64	1.75	195-05	3.75	171-30	7:70	141-93	101'20	101.50	
8th	PPA		12:42	218-64	1.83	194.97	8.75	171:30	7.60	141 83	101.50	101-20	
9th	141	*14	12.37	218.59	1.83	194-97	8-67	171.22	7.20	141.43	101.10	101.10	
Oth	404	111	12.37	218-59	1.83	194-97	8.68	171.18	7.20	141.43	101.10	101-10	
ltb	141	100	12:37	218.59	1.92	194.88	8.58	171:13	7.00	141.28	101:00	101.00	
2th			12:37	218-59	1:92	194.88	3.20	171.05	6-80	141'08	101.00	101.00	
36h	117	***	12 37	218:59	1.92	194-68	342	170-97	7:40	141.63	101.00	101.00	
ith.	-		12:37	218-59	1.92	194.88	3.42	170*97	7.60	141-83	101'00	101.00	
5ch	1		12:57	218-59	1.92	194.88	8'33	170 88	7:30	141.53	101.00	101.00	
6th	in	199	12:37	218:59	1.95	194.88	3.33	170-88	7-20	141-43	101.00	101.00	
7th	***		12:37	218.59	1.92	194.88	3.25	170-80	7:20	141.48	100.90	100.90	
8tli			12 37	218'59	1.92	194.88	3.25	170.80	7-10	141'38	100.90	100.90	
9th	-		12.37	218-69	1.92	194-88	3:17	170.72	6.60	140.83	100.80	100.80	
Olli	was:		12'37	218-59	1:92	194.88	3.17	170.72	6.20	140-43	100.70	100.70	
let		723	12-57	218-59	1.92	194 88	3.08	170-63	6.10	140'88	100-70	100.70	
het			12:37	218-59	1.75	195-05	3.08	170 63	6.00	140'23	100-60	100 60	
Brd .	452	ilea.	12:46	218-68	1.83	194-97	3.08	170-63	6.00	140.28	100.20	100-60	
Atis	***	***	12'42	21864	1.92	194.88	3.08	170.63	6.80	141'03	100.60	100.60	
óth	914		12-37	218-59	1.92	194:88	3.08	170.63	6:40	140.63	100.00	100-50	
86h	0.00		12.33	218.55	2.08	194.73	3.00	170.55	6.00	140-23	100.20	100.20	
7th	***		12.83	218 55	2.08	194.72	3 00	170.55	6-80	141 08	100.50	100.60	
8th	***	***	12:33	218.55	2.17	194'68	3.00	170.56	6.00	140 83	100.20	100.20	
9th_		in	12:33	218:55	2.17	194-63	8100	170.55	6.20	140.73	100.20	100.50	
Uth	* ***	***	12.29	210.61	2.17	194.63	3.00	170-55	6.60	140.83	100.00	100.50	
1st	146		12'29	218-51	2.17	194 68	9.00	170.56	6-60	140-83	100-50	100'50	

MENT, BENGAL.

rivers Danges, Shaqirathi, Jalangi and Brahmaputra for the month of M.S.L. as well as the lowest gauge reading since 1876.

35.0			PLIE	1	17		BEAGI-	BIVER	Jamient,	BIYER BRANKA-		
Rajconbal, Laro of gauge is at 54:319.		Ramput-Boalle. Zero of gange 1-bl ft.		Gontando. Zero of gauge is 4-800 fl. above mean gon-jevel.		Berhampore. Zero of gaogo 22'490.		Saropganj. Zero of gadge 1'400.		Ganhati- Zara ot gange 134 i 8.		
From	From Monghyr, 120.	From Benares, 471,	From Rajmahal,	From Business, 191.	From Remput- Boalia, 126.			3				
16th August 1915.		20th Aug	uet lärn.	18th August 1906 and 16th Beptember 1910. M:446 28th March 1916. 7:148.		14th August 1800 62.487 19th to 26th April 1917. 33-903.		26th Saptember 1900. 80 US. 26th March 1915. 36'15'9.		14th August 1905, 187 52. ath Rebenary 1884, 229786,		
20th az 1913.	4 30th May 88'360.	#8rd April 1886.										
Height over sere of gauge.	Height over mosa ma-level.	Haight ever sero of gauge.	Height over mean see-level.	Beight over zero of gange,	Height over meen sea-lavel.	Height over seru of gauge.	Height over mean madevel	Height over term of gauge.	Height over munu sen-level.	Height over were of gauge.	Height over men non-love)	
TII.	14	10	16 -	17	16	19	50	81	- 12	91	34	
			20.00	8:10	12:996	8:11	35-609	3.24	4:749	1:40	136.5	
6.85	62.669	38:14	39.65	150	- 12 - 17		11-11	3.26	4.769	1:40	136-5	
6.25	62-569	38-09	39.60	8.10	12.996	3.11	85.609	3.21	4.719	1.30	136.4	
6.50	62-519	38 09	39.60	8.00	12.896	3.11	35·609 35·609	3.12	4.650	1.80	136.4	
6-10	62:419	38.04	39.55	7.90	12.796	3.11		3:04	4.549	1-20	136.3	
6.02	62.369	37.94	39.45	7.80	12.696	8.01	35:509	2.98	4.489	1.20	136.3	
6.00	62:319	87.84	39.35	7.80	12 696	3.01	35.509	2.96	4.469	1.50	136.3	
6.00	62 319	37.69	39.20	7:50	12.896	3.01	35.509	2.94	4'449	1:15	130.3	
5-95	62-269	37.59	39.10	7.60	12.496	3.01	35.509	2.97	4:479	1.12	136.3	
5.80	62 119	37:49	39.00	6.900	11:796	8:01	35.509	2.99	4:499	1.19	136.3	
5.85	62:169	37:39	38-90	6.70	11.596	3.01	35.509	3.00	4.509	110	136.2	
5.80	62-119	37.29	38.80	6-70	11.596	3-01	35.509		4.529	1'05	136.2	
5.76	62 069	37:19	38-70	6-60	11-496	3.01	35.209	3.02	4.599	1:00	136 1	
5.70	62:019	37'04	38.55	6/80	11.696	2.91	35-409	3.09		0.50	136-0	
-6-70	62.019	36.84	38-45	6-90	11.796	2.91	35.409	5.31	4.819	0.90	1360	
5.70	62.019	36.84	38.35	7.00	11.896	2.91	35.409	3.49	4.999	121.70	195-9	
5.65	61.969	36,74	38.26	7.10	11.996	2.91	35-409	3.24	5.049	0.80	135 9	
5.22	61.869	86'64	38.12	1000	12.096	5.91	35.409	3.73	5-239	1	1 10 10	
5.22	61.869	36:59	38.10	-	12.096	2.91	35.409	3.72	5.229	0.70	135.8	
5.20	61.819	38.49	38.00	1 6.00	11.996	2.91	35.409	3.49	4-999	1	135.8	
5.45	61.769	36-39	87-90	100	11 796	2.91	35 409	3.10	4.609	1 3.	135.7	
5 40	61.719	86'29	37.80	10000	11.596	2.81	35-309		4.429		135.7	
5.80	61.619	36.24	37.75	W.C.	100	2.8L	35.309	100	4:329		135-7	
5.25	61.569	36-19	87.70	1	11:396	5.81	35.309	2.84	4:349	-	1356	
5.20	61.619	86-14	37-65	9.30	11'196	2.81	35-309		4.129	1	135.6	
5.10	01-419	36.09	87'80	6.00	10-896	2.81	35:309		4-139	1	135'5	
5.05	61.369	36.09	87:60	8.90	10.796	2-81	35:309	17	4.149		135-4	
5105	61:369	35 99	.37.50	5.90	70.796	2.81	85 309		4189	-	135:4	
5 05	61-369	35.89	37:40	5.80	10.696	2.71	35.209	2.79	4-299	0.20	135-3	
5.05	61.369	35.79	37-30	6 00	10:896	2.71	\$5.209	2.80	4.808	0.20	135-3	
6.00	61.319	35.74	37-25	6.10	10.996	2071	\$5.209	2.91	4.419	0.10	135°2	
5 00	61-819	35-69	37-20	620	11:096	2.71	35-209	2.92	4.429		134.9	

ghat on 8th January 1929

D. N. SEN GUPTA,

Personal Assistant to Secretary

to the Government of Bengal.

IRRIGATION DEPARTMENT, BENGAL.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1821-22.

Area leased for irrigation up to end of January 1929.

				- 16	-	85.4	Sala.		SET 1	BARRE	- 4	-
ALL.		Up to und of	Inches.	67-95	51.54	55.62	1	i	44.95	1	1	1
BAINFALL,		dinom gained	faches.	0.30	1.62	1.18			0.62		1	1
RALIFFALLIN 1931-75		Up to end of mostn,	Inches Inches Inches	53-24	52.43	37.89			91.16	1		1
		Daniel month.	Inches.	0.10	6.25	0.00		1	9.0	1		. 1
		-lated Danse	Acres. 1	75,440	6,976	1	82,416	85,502	22,391	23,143	104,807	108,645
		Jaser	Acres.	1,946	12		1,967	3,928	122	1,562	2,744	5,490
LEASED.		Hot weathor.,	Acres.	1	1					1	***	
ANSAR L	D beams.	Suppression.	Acres.	;	3	:	i	1	10	10	10	10
DESTRICT OF	Season	,14mB,	Acres.	į				1	7.9	30	7.9	8
Direc	1	Ahada	Acres.	1,946	- EN	**	1,267	3,928	688	1,522	2,656	5,450
	.esmosi ervei.peo.d		Aoros.	73,494	6.955	1	80,449	81,574	21,614	21,581	102,063	103,155
parel eff c	nb es	Approximate bear your selection of seal edge sense.	A cres.	76,629	8,731	1	85 360		170,23		108,337	1
4800	P113	Approximate are terigated during up to the east month.	Acres.	75,429	6.956	:	82,385	1	21,984		104,369	1
	7	Disobarge utilise	C, ft.		1	:	1	1	-	1	1	1
a)	100	adoubb egeror.A addaoor	C. ft.	96	ঝ		1	1:	4	:	1	1
.00	क्षेत्रच्याः	with lint bedamlied	O. ft.	1,411	700 00 00			1:	1,000		1	1
	Owns.).			Midnanore	-	les. Ranges I and	Tetal Midnapore Canal	Total of the corresponding	图	Total of the corresponding period last year.	GRAND TOTAL	GRAND TOTAL OF THE CORRES- SPONDING PERIOD OF LAST FEAR.
	1000	Dasher.			Midnapore	Howash			Bardwan and	Hooghly.		
	THE STATE OF	Grde,					SW.	and and and and and and and and and and				

* Of which 30s acres are single valoring.

† Of which 28 acres are ningle watering and 28 acres are unauthorised irrigation.

D. N. SEN GUPTA, Personal Assistant to Secretary to the Government of Bengal.

The 17th March 1922. CALCUTTA,

DISTRICT REPORTS ON WEATHER AND CROPS

For the week anding on the 15th March 1922.

Summary.—Dry weather continued. Reaping of spring crops is going on. Rain is badly needed for the growth of standing crops and for the preparation of land for and sowings of jute and other autumn crops. The average price of common rice for the province has risen by about 1 per cent. as compared with that of the previous week.

	District and	Hain fall.	PRIOR OF CO	MMON RICK, LE	Disargoter of the weather, condition of erope, etc.			
rial fo-	and the state of	HE IS SELL.	This week.	Provious week.				
1		11	131	F- F-				
1		Inches.			Lands are being prepared for one paddy and jute. Fodder			
1	24-PARGANAS	Nil	51	58	and water are sufficient.			
	Diamond Harbour.	Nil	61	62				
	Barrackpore Barasat Basirbat	Nil Nil Nil	(n) 64 71	6‡ 6‡ 7;8				
2	NADIA	Nil	716 61	7 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Harvesting of mbi crops is almost finished. Rain is wanted for ploughing. Cattle-disease is reported from Karimpur, Chakda, Ranaghat, and Nabadwip thapas.			
	Kushtia	Nil			- 2			
	Meherpur	Nil	7,0	7,5				
	Chnadanga	Nil	71	71				
	Ranaghat	Nil	67	61				
3	MURSHIDABA	Nil	7	7	Prospects of standing crops are fair. Harvesting of rail crops has commenced. Fodder is sufficient. No larg import and export at rice. Cattle-disease is reported.			
	Lalbagh	1 1	7	7-	from Bharatpur thana in Kandi auddivision. Scarcity of water is experienced in Bhagwangela and Laigola thana			
	Jangipur	. Nil	7 ½	71	in Lapagn enouty-store.			
	Kandi	. Nil	77	8				
					Weather seasonable. Harvesting of rabi crops continue			
4	10 TO 10 TO		8	8	Prospects of standing crops are not favourable for was of rain. Export of paddy is reported from Jhenide subdivision. Fodder is sufficient but water is rath			
	Jhenidah			9	subdivision. Folder is summer a			
	Magara .	Nil	9					
	Narail .	Nil	9	9				
	Bongaon .	Nil	81	84				
-	KHULNA .	Nil	1	8	Want of rain is retarding the agricultural operation. Scarcity of drinking water is beginning to be felt in mapplaces. No cattle-disease is reported.			
	Satkhira	Ni	8	8				
	Bagerhat	Ni	1 7	8				

(a) hot reported.